OKI
PRINTING SOLUTIONS

C5540 MFP

User's Guide

C5500 Series

PREFACE

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

While all reasonable efforts have been made to make this document as accurate and helpful as possible, we make no warranty of any kind, expressed or implied, as to the accuracy or completeness of the information contained herein.

The most up-to-date drivers and manuals are available from the Oki web site:
http://www.okiprintingsolutions.com

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As an Energy Star Program Participant, the manufacturer has determined that this product meets the Energy Star guidelines for energy efficiency.

This product complies with the requirements of the Council Directives 89/336/EEC (EMC) and 73/23/EEC (LVD) as amended where applicable on the approximation of the laws of the member states relating to electromagnetic compatibility and low voltage.

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NOTES, CAUTIONS AND WARNINGS

NOTE
A note provides additional information to supplement the main text.

CAUTION!

A caution provides additional information which, if ignored, may result in equipment malfunction or damage.

WARNING!

A warning provides additional information which, if ignored, may result in a risk of personal injury.

Only use genuine Oki Original consumables to ensure the best quality and performance from your hardware. Non-Oki Original products may damage your printer's performance and invalidate your warranty. Specifications subject to change without notice. All trademarks acknowledged.

INTRODUCTION

Congratulations on choosing this Oki Printing Solutions Multi Function Product (MFP). It is designed with advanced features, to give you clear, vibrant colour prints and crisp black and white pages at high speed on a range of office print media.

With this MFP, you can instantly scan paper-based documents and deliver the electronic image to various destinations including email addresses, printers, ftp servers or someone else's computer on the network.

Your MFP includes these features:

- Up to 16 pages per minute in full colour for fast printing of high impact colour presentations and other documents.

  Up to 8 copies per minute (at 300 dpi) in full colour for fast copying.

- Up to 24 pages per minute in black and white for fast and efficient printing of all general purpose documents not requiring colour.

  Up to 16 copies per minute (at 300 dpi) in black and white for fast and efficient copying of all general purpose documents not requiring colour.

- 1200 x 600dpi (dots per inch) print resolution for high quality image production showing the finest detail.
- 600 x 600dpi (dots per inch) copy resolution.
- Single Pass Colour Digital LED technology for high speed processing of your printed pages.
- High speed USB 2.0 interface.
- "Ask Oki" – a brand new, user-friendly function that gives a direct link from your printer driver screen (but not always illustrated in this guide) to a dedicated web site specific to the exact model you are using. This is where you'll find all the advice, assistance and support you could need to help you get the best possible results from your Oki printer.
- Scan to E-mail - Connected to an Ethernet network and a SMTP server, this MFP allows you to transmit document(s) over the internet via e-mail. With a touch of the e-mail

key and the selection of your recipients' e-mail addresses, the document(s) is/are first scanned and converted into an image file, and then transmitted to remote recipients within minutes.

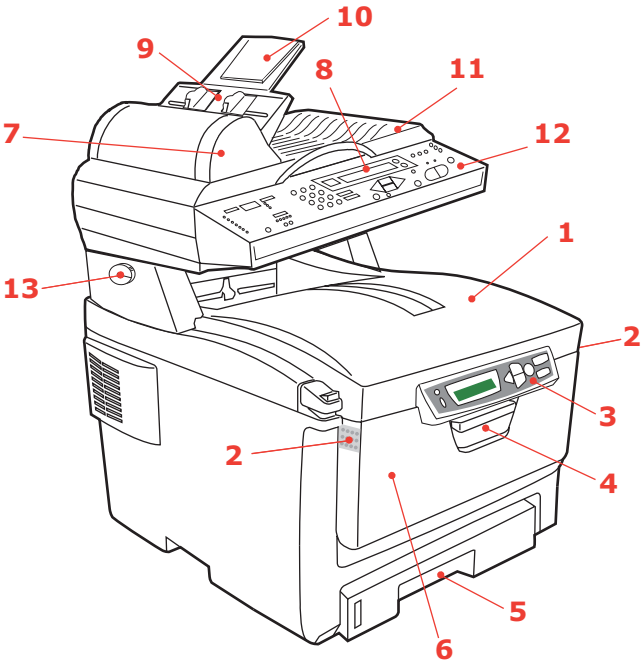
- Scan to FTP - Allows you to send scanned documents to a server or a personal computer's file folder over an intranet with FTP (File Transfer Protocol), HTTP (Hypertext Transfer Protocol), CIFS (Common Internet File System) protocol. The scan to filing feature removes the need for the mail server to handle large attachments.
- Digital Copying - An intuitive control panel, makes digital copying fast and easy.
- Network/PC Printing - When connected to a Network, The MFP is able to perform network or PC printing (available in "Scan-to-Mode".
- Multiple Pages Sending - With the Auto Document Feeder, the MFP allows a stack of up to 50 page document(s) to be continuously scanned.
- Address Book/Profiles Managing - This provides a convenient way to manage all the e-mail addresses and profiles (filing destinations). Simply typing the machine's IP address in the URL field of your browser will prompt the MFP web page. This web page allows you to create up to 300 e-mail addresses and several filing destinations to manage your document.

The following optional feature is available:

- Additional memory, to allow printing of more complex pages.
- Additional paper tray for loading a further 530 sheets to minimise operator intervention, or different paper stocks for letterhead stationery, alternative paper sizes or other print media.
- Automatic two-sided (duplex) printing for economical use of paper and compact printing of larger documents.

MFP OVERVIEW

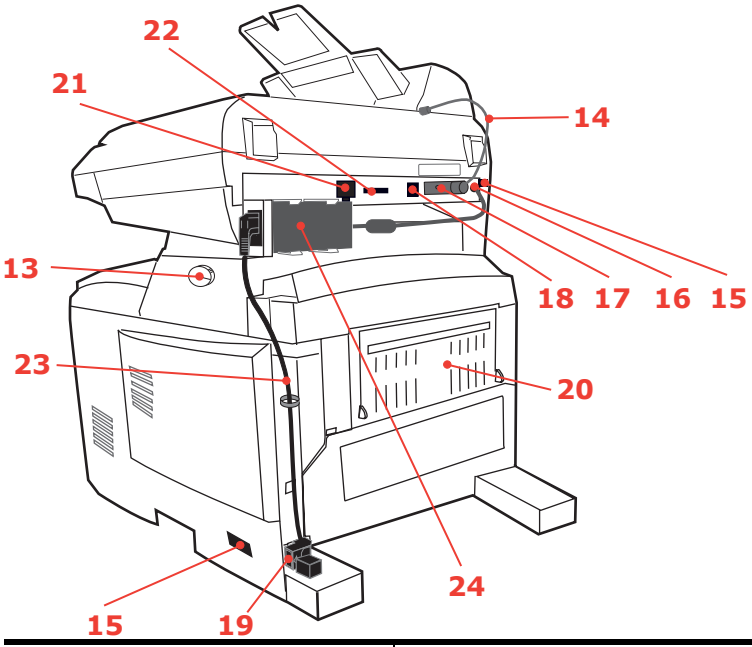
FRONT VIEW



1. Output stacker, face down. Standard printed copy delivery point. Holds up to 250 sheets at 80g/m².	**6.** Multi purpose feeder (shown closed). Used for feeding heavier paper stocks, envelopes and other special media. Also for manual feeding of single sheets when required.
2. Multi purpose tray release buttons (press).	**7.** Automatic Document Feeder (ADF) Unit.
3. Operator Panel with LCD display. Status LEDs and operator buttons.	**8.** LCD Display.
4. Front Cover release (lift).	**9.** ADF Paper Tray.
5. Paper tray. Standard blank paper tray. Holds up to 300 sheets of 80g/m² paper.	**10.** ADF Paper Support.
	11. Document Cover.
	12. Control Panel.
	13. Lock/Unlock lever

REAR VIEW

This view shows the connection panel and the rear output stacker.



14. ADF Cable.	**19.** AC power socket.
15. ON/OFF Power switch.	**20.** Rear, face up, 100 sheet stacker.
16. DC power socket.	**21.** Network Connector.
17. ADF Connector.	**22.** Interconnection Socket.
18. USB interface.	**23.** Flush interconnection cable.
	24. AC adapter

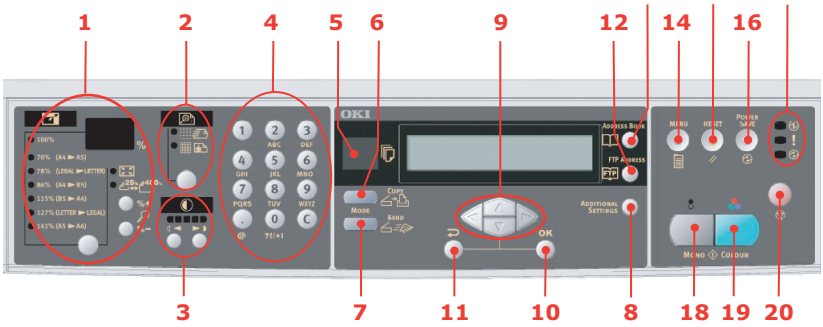
WARNING!

Only use the AC adapter supplied with this MFP. The use of any other AC adapter may cause electric shock or fire.

When the rear paper stacker is folded down, paper exits through the rear of the printer and is stacked here face up. This is mainly used for heavy print media. When used in conjunction with the multi purpose feed tray, the paper path through the printer is

essentially straight. This avoids bending the paper around curves in the paper path and enables feeding of up to 203g/m² media.

THE CONTROL PANEL

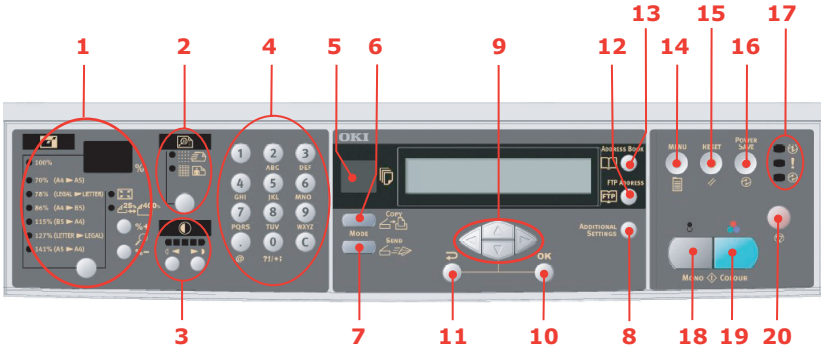


COPY AREA

1. Zoom	Used to increase or decrease scaling in 1% increments up to 400% and down to -25%. A further choice of scaling can be made from preset percentages.
2. Copy Quality	Used to select copy quality.
3. Density	Used to change the density level.
4. Copy Count	Used to enter copy quantity or e-mail address.

LCD AND FUNCTION AREA

5. Copy Count	Indicates the number of copies selected.
6. Copy Mode	Used to select copy mode.
7. Scan Mode	Used to select the Scan mode (also the default working mode).
8. Additional Settings	Used to execute additional settings of "Copy" and "Scan" modes. (The settings are available only for three minutes. After three minutes, the settings will automatically return to the default value).
9. Up/Down/Left/ Right Keys	Used to move the cursor in the LCD up/down/ left/right. The up/down keys are used to switch function indication. The left key is used to return to the upper level of the setting. The right key is used to go to the lower level of the setting.



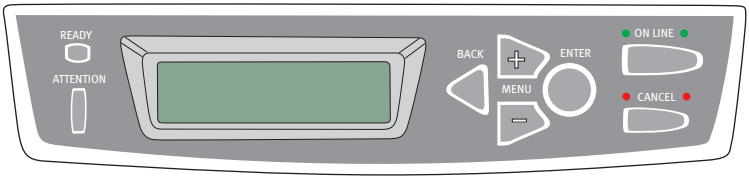
10. OK/Select	Used to select and confirm current setting selections.
11. Cancel/Return	Used to cancel selections and go back to the top level of the setting. The key is also used to cancel any previous input.
12. FTP Address	Used to indicate the existing FTP address for the "Scan to" function. This key is only available in the "Scan to" mode.
13. Address book	Used to indicate the existing E-mail address for the "Scan to" function. This key is only available in the "Scan to" mode.

START AND OTHER KEYS

14. Menu	Select to access the menu to set up the MFP.
15. Reset	Select to change the scanner to the factory default settings.
16. Power save	Press once to go to “sleep” mode (continuous press is invalid).
17. Power LEDs	
Power	Illuminates to indicate “power on and ready”.
Alarm	Illuminates to indicate error condition.
Sleep	Illuminates to indicate power save mode.
18. Mono	Select to send or copy document(s) in monochrome.
19. Color	Select to send or copy in colour.
20. Stop	Select to stop all operation (LCD indication shifts to stand-by screen for each function). Does not effect settings.

CHANGING THE DISPLAY LANGUAGE

The language used by your printer for display messages and for report printing can be changed quickly and easily as follows:



1. Press the + key repeatedly to access the System Configuration Menu.
2. Press the **ENTER** key to enter the System Configuration Menu.
3. Press the – key to move directly to the last item in this menu: **LANGUAGE**.
4. Press **ENTER** to change this setting.
5. Use the +/– keys to move in either direction through the list of available languages until the language you want is displayed.
6. Press the **ENTER** key to select this language.
7. Press the **ON LINE** key to exit the menu system and return the printer to standby.

The LCD display language can be changed to any of these languages:

English	Norwegian
German	Danish
French	Dutch
Italian	Turkish
Spanish	Portuguese
Swedish	Polish
Russian	Greek

GETTING STARTED

PAPER RECOMMENDATIONS

Your MFP will handle a variety of print media, including a range of paper weights and sizes, transparencies and envelopes. This section provides general advice on choice of media, and explains how to use each type.

The best performance will be obtained when using standard 75~90g/m² paper designed for use in copiers and laser printers. Suitable types are:

- Arjo Wiggins Conqueror Colour Solutions 90g/m²;
- Colour Copy by Neusiedler.

Use of heavily embossed or very rough textured paper is not recommended.

Pre-printed stationery can be used, but the ink must not offset when exposed to the high fuser temperatures used in the printing process.

Envelopes should be free from twist, curl or other deformations. They should also be of the rectangular flap type, with glue that remains intact when subjected to hot roll pressure fusing used in this type of printer. Window envelopes are not suitable.

Transparencies should be of the type designed for use in copiers and laser printers. We strongly recommend Oki transparencies (Order No. 01074101). In particular, avoid office transparencies designed for use by hand with marker pens. These will melt in the fuser and cause damage.

Labels should also be of the type recommended for use in copiers and laser printers, in which the base carrier page is entirely covered by labels. Other types of label stock may damage the printer due to the labels peeling off during the printing process. A suitable type is:

- Avery White Laser Label types 7162, 7664, 7666 (A4), or 5161 (Letter);

Business cards recommended are produced by Oki (Order No. 09002985).

CASSETTE TRAY

SIZE	DIMENSIONS	WEIGHT (G/M²)	
A6	105 x 148mm		
A5	148 x 210mm		
B5	182 x 257mm		
Executive	184.2 x 266.7mm	Light	64-74g/m²
A4	210 x 297mm	Medium	75-90g/m²
Letter	215.9 x 279.4mm	Heavy	91-120g/m²
Legal 13in.	216 x 330mm		
Legal 13.5in.	216 x 343mm		
Legal 14in.	216 x 356mm		

If you have identical paper stock loaded in the multi purpose tray, you can have the printer automatically switch to the other tray when the current tray runs out of paper. When printing from Windows applications, this function is enabled in the driver settings. When printing from other systems, this function is enabled in the Print Menu.

MULTI PURPOSE TRAY

The multi purpose tray can handle the same media sizes as the cassette trays but in weights of 75g/m² to 203g/m². For very heavy paper stock, use the face up (rear) paper stacker. This ensures that the paper path through the printer is almost straight.

The multi purpose tray can feed paper widths as small as 105mm and lengths up to 1200mm (banner printing).

For paper lengths exceeding 356mm (Legal 14in.) use paper stock between 90g/m² and 128g/m² and the face up (rear) paper stacker.

Use the multi purpose tray for printing on envelopes and transparencies. Up to 50 sheets of transparencies or 10 envelopes can be loaded at one time, subject to a maximum stacking depth of 10mm.

Paper or transparencies should be loaded print side up and top edge into the printer.

FACE DOWN STACKER

The face down stacker on the top of the printer can hold up to 250 sheets of 80g/m² standard paper and can handle paper stocks up to 120g/m². Pages printed in reading order (page 1 first) will be sorted in reading order (last page on top, facing down).

FACE UP STACKER

The face up stacker at the rear of the printer should be opened and the tray extension pulled out when required for use. In this condition paper will exit via this path, regardless of driver settings.

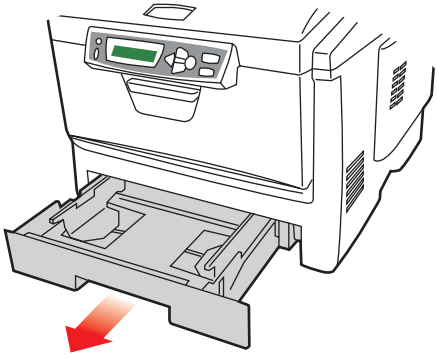
The face up stacker can hold up to 100 sheets of 80g/m² standard paper, and can handle stocks up to 203g/m².

Always use this stacker and the multi purpose feeder for paper stocks heavier than 120g/m².

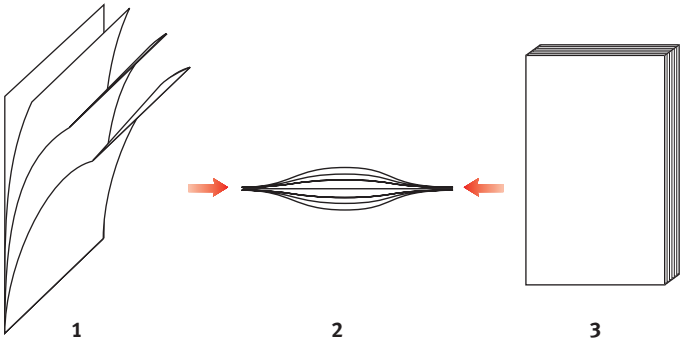
LOADING PAPER

CASSETTE TRAY

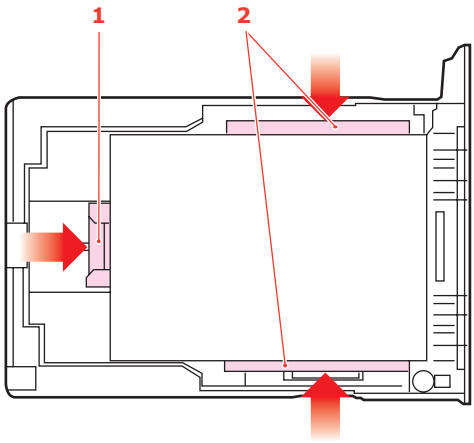
1. Remove the paper tray from the printer.



2. Fan the paper to be loaded at the edges (1) and in the middle (2) to ensure that all sheets are properly separated, then tap the edges of the stack on a flat surface to make it flush again (3).



3. Load the paper (for letter headed paper load face down with top edge towards the front of the printer).



4. Adjust the rear stopper (1) and paper guides (2) to the size of paper being used.

To prevent paper jams:

> Do not leave space between the paper and the guides and rear stopper.

> Do not overfill the paper tray. Capacity depends on the type of paper stock.

> Do not load damaged paper.

> Do not load paper of different sizes or types at the same time.

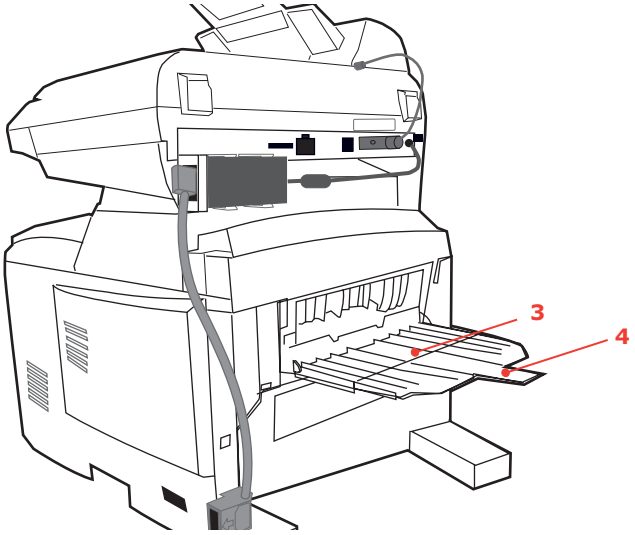
> Do not pull the paper tray out during printing.

> Close the paper tray gently.

5. For face down printing, make sure the face up (rear) stacker (3) is closed (the paper exits from the top of the printer). Stacking capacity is approximately 250 sheets, depending on paper weight.

6. For face up printing, make sure the face up (rear) stacker (3) is open and the paper support (4) is extended. Paper is stacked in reverse order and tray capacity is approximately 100 sheets, depending on paper weight.

7. Always use the face up (rear) stacker for heavy paper (card stock etc.).

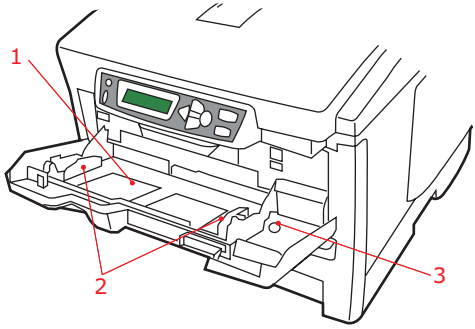


CAUTION!

Do not open or close the rear paper exit while printing as it may result in a paper jam.

MULTI PURPOSE TRAY

1. Open the multi purpose tray and press gently down on the paper platform (1) to ensure it is latched down.



2. Load the paper and adjust the paper guides (2) to the size of paper being used.

> When printing on headed paper load the paper into the multi purpose tray with pre-printed side up and top edge into the printer.

> Envelopes should be loaded face up with top edge to the left and short edge into the printer.

> Do not exceed the paper capacity of about 50 sheets or 10 envelopes. Maximum stacking depth is 10mm.

3. Press the tray latch button (3) inwards to release the paper platform, so that the paper is lifted and gripped in place.

Set the correct paper size for the multi purpose tray in the Media Menu.

NOTE:
Before closing the Multi Purpose Tray, Paper platform (1) must be latched down.

CONFIGURING YOUR MACHINE....

MINIMUM CONFIGURATION REQUIREMENTS

To make the best of this MFP, the following configuration is required:

To send e-mails:

- TCP/IP network.
- A SMTP and an optional POP3 server.

To file document(s) via intranet

- FTP, HTTP, or CIFS Protocol environment.
- Windows 98, Windows NT, Windows 2000, Windows Me, Windows XP, HTTP or FTP server.

PRE-INSTALLATION INFORMATION

The MFP has to be set up properly on your network to perform scan to e-mail and scan to FTP functions. In order for other network devices to find the MFP on the network, the following network parameters have to be set.

1. DHCP enable:
2. IP Address: . . .
3. Subnet mask: . . .
4. Gateway IP: . . .
5. DNS server: . . .
6. SMTP server: . . .
7. SMTP port: 25
8. POP3 server: . . .
9. POP3 Port: 110

Explanation:

1. DHCP Enable:

Choose Yes to obtain IP/subnet/gateway addresses automatically from DHCP server. After changing setting from Disable to Enable, switch scanner module power OFF then ON.

2. IP Address:

The Internet Protocol (IP) address assigned to your machine by your network administrator.

3. Subnet Mask:

The net mask address assigned by your network administrator.

4. Gateway IP:

The gateway IP address assigned by your network administrator.

5. SMTP Server:

The IP address of your SMTP Mail Server assigned by your network administrator.

6. SMTP Port:

The port number of your SMTP Mail Server.

7. DNS server:

The IP address of DNS Server assigned by your network administrator.

8. POP3 Server:

The IP address of your POP3 server.

9. POP3 Port

The port number of your POP3 Server.

Enter the DNS name, or IP and port number of your POP3 server if your mail server requires POP3 authentication, before sending e-mails from the machine.

NOTE:

1. *DHCP server: With DHCP (Dynamic Host Configuration Protocol), a host can automatically be given a unique IP address each time it connects to a network-making IP address management an easier task for network administrators. If the DHCP server is available from your network, you do not need to enter TCP/IP, subnet mask, gateway, and DNS information. Instead, this information will be automatically given for the MFP.*
2. *IP Address: An IP (Internet Protocol) address uniquely identifies a host connection to an IP network. System administrator or network designer assigns the IP address. The IP address consists of two parts, one identifying the network and the one identifying your node. The IP address is usually written as four numbers separated by periods. Each number can be zero to 255. For example, 10.1.30.186 could be an IP address.*
3. *SMTP: (Simple Mail Transfer Protocol) is the main communication protocol used to send and receive e-mail on the Internet.*
4. *DNS: (Domain Name System). The DNS server identifies hosts via names instead of IP addresses. If the DNS server is available on your network, you can enter the domain name instead of digits for your SMTP or POP3 servers, such as Pegasus.com.tw instead of 120.3.2.23.*
5. *POP3: POP3 is the latest Post Office Protocol 3, this is a service that stores and serves e-mails for various client machines that are not connected to the Internet 24 hours a day. E-mails are held in POP3 until you log on.*

INTERNET COMMUNICATION FEATURES

Scan to E-mail

The MFP allows you to deliver your scanned document to e-mail addresses on the network. The document is first scanned and converted to a standard PDF, JPEG, TIFF, or MTIF (Multi-page TIFF) file format and then transmitted to remote recipients simultaneously as an e-mail attachment.

When you send an e-mail to someone using this MFP it uses Simple Mail Transfer Protocol (SMTP) to transfer your outgoing e-mails to your SMTP mail server, and then send these e-mails to your recipients through the internet.

Scan to FTP

Via the intranet with FTP (File Transfer Protocol), HTTP (Hypertext Transfer Protocol), or CIFS (Common Internet File System). The MFP allows you to save scanned documents directly to a designated server or a personal computer on the network in a standard PDF, JPEG, TIFF, or MTIFF file format.

CIFS is the sharing system of Microsoft Windows. What is unique about this filing function is that it allows all corporate users to share one machine to send documents to each file folder on a designated server or individual computer.

There are two methods of configuring your machine:

1. From the MFP's web page.
2. From the MFP's Management Utilities (please refer to the user's manual of the Network Setup Tool on the CD-ROM supplied).

The following settings or destinations must be defined by the system administrator before the MFP can be used to distribute any scanned document(s) on the network.

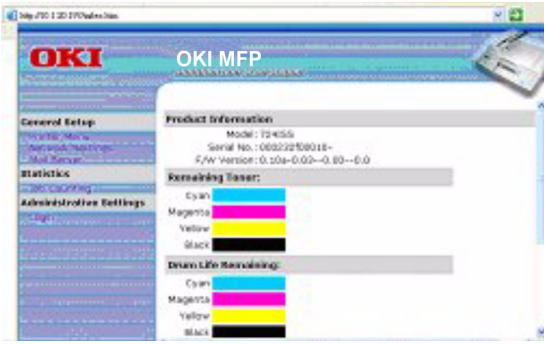
- Network and E-mail parameters: Defines the parameters for TCP/IP, SMTP, and POP3 protocols to send your scanned document to e-mail addresses.
- Filing destinations: Defines the protocols and destinations to send your scanned document to FTP servers, web, or any personal computers on the network.

NOTE:

1. *If the system administrator has chosen DHCP, then the IP address of TCP/IP, gateway, subnet mask, and DNS server will be automatically given.*
2. *When installing the MFP for the first time, it is recommended that the Administrator retain the default system settings. The settings can be customized at a later date, once you are familiar with the operation and functionality.*

....FROM THE WEB PAGE

1. Type the IP address of the MFP in the URL field of your browser and then press Enter. The MFP web page appears. For example: http://192.32.35.10



2. Click each item on the menu and enter the relevant value.

   NOTE:
   The Administrative Settings are blocked by a password. It is recommended that the system administrator creates a new one since the machine is shipped without a specific password.

CONFIGURATION

Press Menu on the control panel, as above.

CONTENTS OF EACH MENU

Information

ITEM	DESCRIPTION OR CHOICE
Model	Displays the model name.
Serial number	Displays serial number.
F/W version	Displays firmware version.

Printer Menu

ITEM	DESCRIPTION OR CHOICE
Tray 1 Paper Size	Letter, Legal, A4, B5, A5.
Tray 2 Paper Size	Letter, Legal, A4, B5, A5.
MP Paper Size	Letter, Legal, A4, B5, A5.
Tray 1 Media Weight	Light, Medium, Heavy.
Tray 2 Media Weight	Light, Medium, Heavy.
MP Media Weight	Medium, Heavy, Ultra Heavy.
Tray 1 Media Type	Plain, Letterhead, Bond, Recycled, Rough
Tray 2 Media Type	Plain, Letterhead, Bond, Recycled, Rough
MP Media Type	Plain, Letterhead, Transparency, Label, Bond, Recycled, CardStock, Rough.
Density Adjust	ON/OFF. Select to perform Auto Density Adjustment.
Density Adjustment	Select to perform Density Adjustment.
Adjust Registration	Select to perform Auto Colour Registration.

Network Settings

ITEM	DESCRIPTION OR CHOICE
IP Address	The IP address of the MFP
Subnet Mask	The IP address of your subnet mask.
Gateway IP	The IP address of your gateway.
DNS Server	The IP address of your DNS server.
DHCP Enable	Select YES if you wish to enable DHCP.

Mail Server

ITEM	DESCRIPTION OR CHOICE
SMTP Server	The IP address of your SMTP server.
SMTP Port	The port number of your SMPT server.
POP3 Server	The IP address of your POP3 server.
POP3 Port	The port number of your POP3 server.
Authentification Method	No, SMTP, POP3
Login Name	User's choice
Password	User's choice
Def. Subject	Default text for the Subject field in e-mail messages from the MFP. Up to 64 characters are allowed. The default subject is used only when users did not enter anything in the Subject field in e-mail message from the MFP.
Def. From	Default From for the From field in e-mail message from C5510MFP. Up to 64 characters are allowed.
Scan Size Limit	The limitation for the attachment to be sent from the MFP. Choice: 1MB, 3MB, 5MB, 10MB, 30MB, No limit.

Report Print

ITEM	DESCRIPTION OR CHOICE
Menu Map	Select to print Menu Map.
Demo Page	Select to print a sample page.
Job Counting	Select to print job counting.
Consumable Remaining	Select to print information on the consumables remaining.
Scan to Log Report	Select to print all the "scan to" jobs.

Management

NOTES:

1. *The Management selection is blocked by a password. Since the machine is shipped without a specific password, it is recommended that the administrator create a new password to ensure security.*
2. *Security can be split into "Scan-to Restriction" and "PIN Setting" (Copy restriction) independently. However, total restriction to the scanner requires both to be used and the first digit of each PIN to be identical.*

   Scan-to restriction: *After this feature is enabled you will be prompted for a 4 digit PIN. Although 4 digits must be entered, only the first digit is actually validated.*

   PIN Setting (copy restriction): *This feature requires a 4 to 6 digit PIN. Unlike the Scan-to restriction, all digits are valid.*

ITEM	DESCRIPTION OR CHOICE
Password	Enter new password if the administrator wishes to change the password. (Up to 8 alphabetical or numerical digits are allowed to be entered in this field. When entering alphabetical digits, note that they are case-sensitive.)
Scan To Restriction	Choice: Off, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 Note: The PIN ID input screen is indicated at the time of "PIN Setting = Enable".
Add "To" Address On	If "Yes" is selected, when finishing sending an e-mail, there will be a dialogue box inquiring whether the user wishes to add the new e-mail address to the machine's address book. Choice: On, Off
Pin Setting	Choice: On, Off Note: The PIN ID input screen is indicated at the time of "PIN Setting=Enable". Enter four to six characters for your pin ID. A PIN ID under four characters will be denied.
Power Save Time	Select to enter power saving mode after the machine has stopped using for a specific period. Choice: Off, 5, 15, 30, 60, 240 minutes.
Language	Choose the language you prefer to show in the LCD-display. Choice: Eng/Fra/Ita/Spa/Ger/Por/Dut/Dan/Swe/Nor/Gre

SPECIFYING THE ADMINISTRATIVE SETTINGS

NOTE:
The Administrative settings are blocked by a password. Since the machine is shipped without a specific password, it is recommended that the administrator create a new password to ensure security.

ITEM	DESCRIPTION OR CHOICE
Management	Choice: Password, Scan to Restriction, Add To Addr. On, Pin Setting, Power Saving, Using Language, Scan-to Log Report.
Scan-to Profiles	Create profiles of the filing destinations in which the scanned image can be placed.
Address Book	Set up a list of e-mail addresses to which to send your scanned image, using the web page or the Network Setup Tool. Note: The address book can not be assigned on the Control Panel.
Logout	Exit the Administrative Settings.

Scan-to Profile Settings

NOTE:
The settings can only be done through the web page or the Network Setup Tool. It can not be set up on the Control Panel.

ITEM	DESCRIPTION OR CHOICE
Protocol	Choose the protocol required to store your scanned image. Choice: *FTP, *HTTP, *CIFS
Target *URL	Enter the directory for the scanned document.
Port	If the port number for the protocol is different from the default, enter the port number in this field. Default settings: FTP:21, HTTP:80, CIFS:139
File name	Enter file name for the scanned image. Or you can type #Y#M#D#h#m#s#n to make file name change with time. (Y, M, D, h, m, d and n represent year, month, date, hour, minute, second, and series number respectively.) For example, test#m#s lets the file name show minutes and seconds as the last part of file name like test1120, test1260, etc.

* *The directory is different due to the protocol. The route starts from the root directory in FTP, HTTP, and CIFS. For example, ftp://, http://, and file:\\.*

EXPLANATION OF FILING PROTOCOLS

FTP

FTP stands for "File Transfer Protocol." It is a common method of transferring files via the Internet from one computer to another. FTP use RFC 959[FTP] as their protocol. Therefore, ensure you have a legal FTP account with the privilege of writing under the directory to save the files and password before using FTP to save documents. To add a sub-directory from the MFP, you need to have the privilege of adding a new directory.

HTTP

HTTP use RFC 2616[HTTP 1.1] as their protocol, and the default Port is usually 80. If you are not using the HTTP port to save files, you must change the MFP HTTP Port to the port for the Web Server.

Generally speaking, a Hyper Text Transfer Protocol (HTTP) Web Server will use an anonymous account for authentication, so that the user can link directly to the web page without entering the user name and password first. Therefore, if the HTTP Server does use an anonymous account for authentication when you use this MFP to save files, there is no need for setting any text in the field of Login name and Password for the MFP.

On the other hand, if the HTTP server does not allow an anonymous account for authentication of connection to the web page, the user will be prompted to enter a user name and password first when connecting to the web site. In this mode, the file saving feature is available only when entering the user name and password permitted by the server in the Login name and Password field for the MFP.

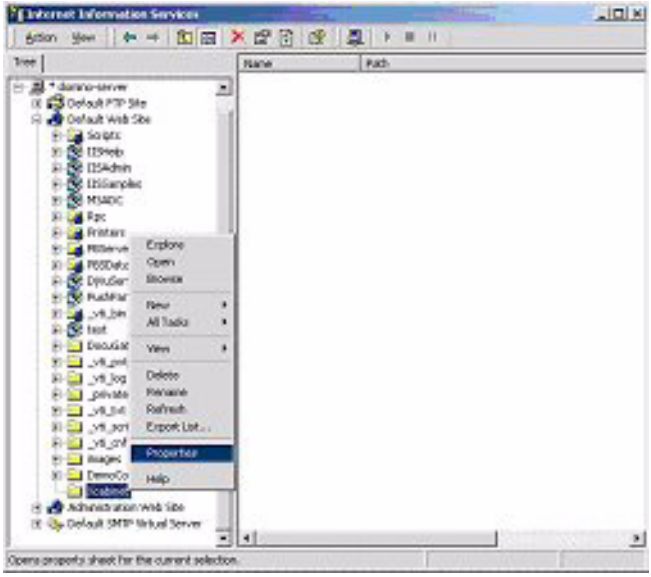
Therefore, make sure of the mode that your Web Server allows before using HTTP for file saving. If anonymous access mode is not allowed, you must have a legal HTTP account and password.

Since this MFP will check whether the directory for file saving really exists before proceeding to file saving and writing after scanning to the specified directory, you have to set the directory for files saving as "browse" and allow for writing in the Web Server; otherwise the MFP will not be able to write the file into the directory.

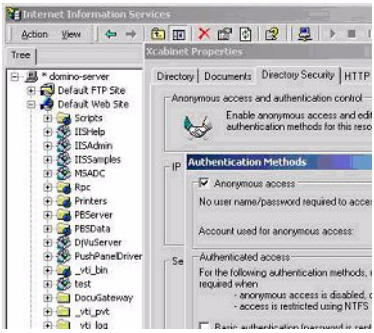
If you wish to use the MFP to save files, in addition to making some settings in Web Server, you will have to confirm that the account has writing privilege for connecting to the Web Server. If not, the MFP will not be able to "write" the scanned file in the file system.

Setting IIS anonymous access:

1. Start Internet service manager in "Control Panel".
2. Select Default Web site and right click C:\Inetpub\wwwroot\X cabinet.
3. Select Properties.



4. In the X cabinet dialogue box, select the Directory security tab, and click Edit for "Anonymous Access and Authentication Control". Make sure " Anonymous Access" is selected in the "Authentication Methods" dialogue box.



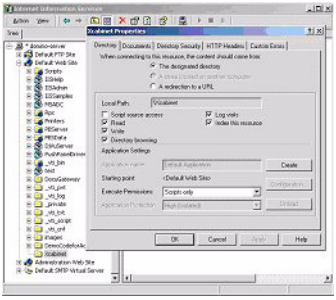
5. Click Edit to open "Account for anonymous access".

NOTE:
Make sure that the account stored in your computer system, in the "username" file, has sufficient privilege to access the file system.

Setting IIS privileged access:

1. As in "Setting IIS anonymous access", start "Internet service manager" and select Default Web site. Right click C:\Inetpub\wwwroot\X cabinet, and select Properties.

2. Select the Directory tab on the Properties page. Ensure the privileges for "Read", "Write" and "Directory Browsing" are selected.



NOTE:
If the file management system on your server is NTFS, in order to allow IIS to use an anonymous account to access the files in the directory of C:\Inetpub\wwwroot\X cabinet\Files, you have to make sure the anonymous account has the correct privileges. You should make the following settings:

1. *Select C:\Inetpub\wwwroot\X cabinet\Files directory in Windows Explorer, and right click to select Properties.*
2. *Select the Security tab in the File dialogue box, and then Everyone.*
3. *Select the privileges for Read and Execute, Folder Properties List, Read and Write.*

After that every user has the privilege to manage all files in the directory for saving files.

NOTE:

1. *For security of the scanned files, "Everyone" should not be allowed to have full privileges of the file directory. Therefore, when setting the access privilege for your file system, it is recommended that you set the privilege of the directory for saving files to IIS anonymous account, or users and groups that can use that directory only.*
2. *Please note that HTTP cannot add a server sub-directory from this MFP.*

When using Apache as HTTP server, according to their documentation, it must have SCRIPT to run the HTTP PUT method. Although the document is attached with a Perl example, you will need to modify it before applying it, since this MFP uses Transfer-encoding of Chunked. In addition, the Apache will have to be set to accept this MFP. For more information refer to the relevant Apache documentation.

CIFS

CIFS (Windows Network Share) is a file saving protocol generally used for "resource sharing" of a network in Microsoft Windows systems. Set up the "shared directory" as per the network settings for sharing in MS Windows. Generally, under the Windows 9x/Me Share level mode, use the "Full Control" password for the directory as the password for the MFP folder and leave the login name field blank. Under the User level mode of Windows NT/2000, use the account and password with the privilege of "write" as the login name and Password for the MFP folder.

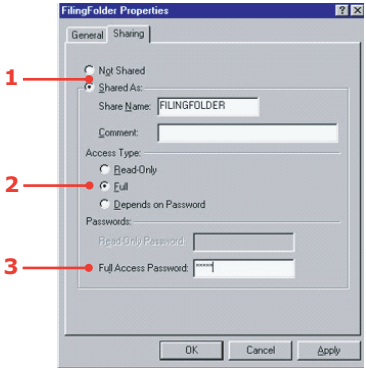
> *NOTE:*
> *Windows NT can use local account as a file saving account only. If adding a Windows NT domain, the domain account is not suitable as files saving account.*

For reference, below is the Win98 CIFS server sharing set up screen.

1. Click sharing.

2. Select “Full”.

3. Enter your Password here.



PRINTER SETTINGS IN WINDOWS

Your printer's operator panel menus provide access to many options. The Windows printer driver also contains settings for many of these items. Where items in the printer driver are the same as those in the operator panel menus, and you print documents from Windows, the settings in the Windows printer driver will override those items in the operator panel menus.

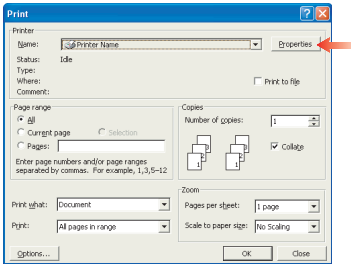
The illustrations in this chapter show Windows XP. Windows 2000 versions may appear slightly different, but the principles are the same. Differences in Windows 98 and Me are covered in a separate chapter.

PCL OR POSTSCRIPT

Two printer drivers are supplied with your printer: one for PCL emulation, and the other for PostScript 3 emulation. If you print mainly from general "Office" applications choose the PCL driver. For faster printing of PDF documents, choose PostScript. If you print mainly from professional DTP and graphics applications, choose PostScript.

PRINTING PREFERENCES IN WINDOWS APPLICATIONS

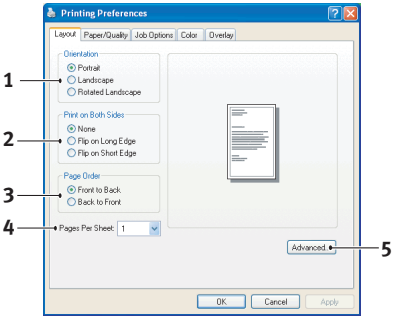
When you choose to print your document from a Windows application program a print dialogue box appears. This dialogue usually specifies the name of the printer on which you will print your document. Next to the printer name is a **Properties** button.



When you click **Properties** a new window opens which contains a short list of the printer settings available in the driver, which you can choose for this document.

The window which opens when you click **Properties** depends on which printer driver has been installed. The PostScript driver offers different choices to the PCL driver.

POSTSCRIPT EMULATION



1. Page orientation sets portrait (tall) or landscape (wide) page orientation. The "rotated" rotates the paper through 90 degrees anti-clockwise.

2. When printing double sided pages (duplex unit required). You can flip the paper either on its long edge or short edge.

3. Pages can be printed in forward or reverse order. If using the face down (top) paper stacker, forward order is usually appropriate to ensure that pages are stacked in numerical order. If using the face up (rear) paper stacker, reverse order would normally stack your pages in numerical order.

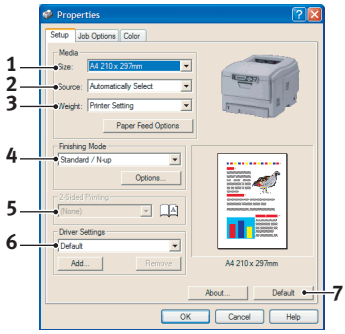
4. You can specify how many pages to print on a sheet. Pages will be scaled to fit the number you choose. If you choose booklet printing (requires duplex unit) two pages will automatically be set, and pages will be printed with the correct pages opposite one another so that folding the stacked printout produces a booklet.

5. Advanced options are also available, such as how to download TrueType fonts, and whether advanced options such as booklet printing are available.

The printer driver contains extensive on-line help for these items to help you make the most appropriate choices.

PCL EMULATION

When you click the **Properties** button from your application's Print dialogue, the driver window opens to allow you to specify your printing preferences for this document.



1. Paper size should be the same as the page size of your document (unless you wish to scale the printout to fit another size), and should also be the same as the size of paper you will feed into the printer.

2. You can choose the source of the paper to feed, which may be Tray 1 (the standard paper tray), Tray 2 (if you have the optional 2nd paper tray installed) or the multi purpose feeder. You can also click on the appropriate part of the screen graphic to select your preferred tray.

3. The setting for paper weight should match the type of paper on which you intend to print.

4. A variety of document finishing options can be selected, such as normal one page per sheet, or N-up (where N can be any number up to 16) for printing scaled down pages at more than one page per sheet. Booklet printing prints two pages per sheet on each side of the paper so that when folded they make up a booklet. Booklet printing requires the duplex unit to be installed in your printer.

Poster printing will print large pages as tiles spread over multiple sheets.

5. For two-sided printing, you can choose to flip the page by the long edge or the short edge. Of course, this requires that a duplex unit be installed in your printer.

6. If you have changed some printing preferences before and saved them as a set, you can recall them to avoid having to set them individually each time you need them.

7. A single on-screen button restores the default settings.

SECURE PRINTING FEATURE

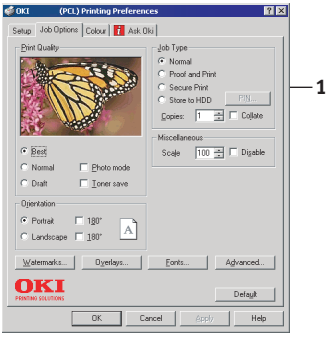
With this feature you can send confidential documents to print and have them stored in the printer until you are ready to print them. Documents sent in this way are protected by a PIN (personal identification number), which must be entered before they will print. This is useful when you need to print confidential documents on a printer which is shared with, or accessible to, other people.

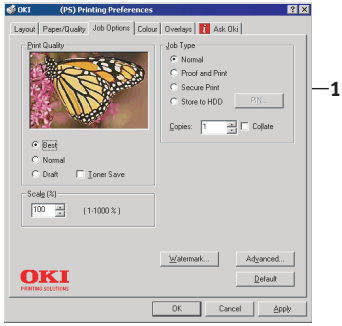
NOTE:
This feature requires the optional internal hard disk.

SENDING THE DOCUMENT TO PRINT

1. From your application's Print dialogue, select your printing choices in the normal way, and then click the **Properties** button.

2. In the driver window, on the **Job Options** tab and select **Secure Print** (1).





3. In the small pop-up window which appears, enter a name for this print job (16 characters maximum) and a 4-digit PIN using any combination of digits from 0 to 7 (do not use 8 or 9), and click **OK**.

4. Click **OK** again to close the driver window, and again to close your application's Print dialogue.

The document will be sent to the printer's hard disk but will not print until you request it.

PRINTING SECURE DOCUMENTS

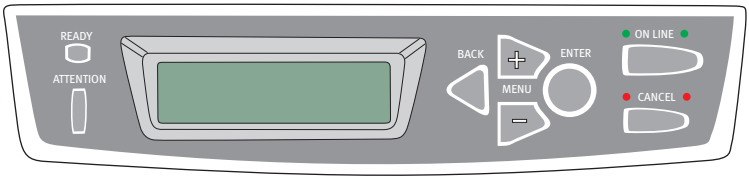
Secure documents stored on the printer's hard disk may be printed in either of two ways:

> From the printer's operator panel;

or...

> From your PC desktop, using the Storage Device Manager utility supplied on CD1 (Drivers and Utilities) with the printer.

Printing from the operator panel



1. Press the **+** button to access the Print Jobs menu.

2. Press **ENTER** to select this menu.

3. Use the **+/–** buttons to display the first digit of your PIN, and then press **ENTER** to enter this digit. Repeat this procedure for each of the four digits.

4. Use the **+/–** buttons to display each of your stored secure documents in turn, or to select all documents. When the required selection is displayed, press **ENTER** to print the document(s).

5. If you have only selected a single document to print, the display will prompt you for the number of collated copies you wish to print (default is 1 copy). Use the **+/–** buttons to choose the number of copies you want and press **ENTER** to begin printing.

After a short pause the selected document will print. When printing is complete the document will automatically be deleted from the printer's hard disk.

Printing from your PC desktop

If you have installed the Storage Device Manager software from the supplied CD, you can also print secure documents directly from your PC desktop. You might do this, perhaps, when the office is empty and your confidential documents can safely be printed remotely.

1. From the Windows **Start** menu, run Storage Device Manager.
2. If necessary, use the **SDM Printer Discovery** window to find all available printers on your network or connected to your computer.
3. Select the icon for the printer holding your secure documents.
4. From the **Printers** menu, choose **HDD Print Jobs**.
5. In the HDD Print Jobs window, choose the **View User Jobs** option button and enter your PIN in the text box provided. After a short pause, a list of your print jobs will appear.
6. In the list of print jobs, select the job you wish to print and click **Print Job(s)**. If necessary, adjust the number of copies you want when the prompt appears.

   After a short pause the selected document will print. When printing is complete the document will automatically be deleted from the printer's hard disk.

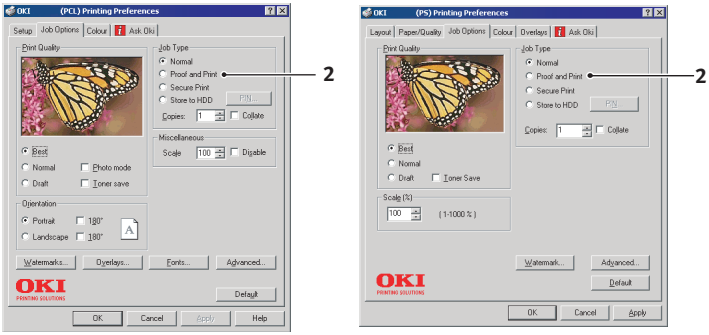
PROOF AND PRINT FEATURE

This feature allows you to send multiple copies of a document to print but only print the first copy so that you can check the output quality before printing the rest.

NOTE:
This feature requires the optional internal hard disk in the printer.

SENDING THE DOCUMENT TO PRINT

1. From your application's Print dialogue, select the number of copies you need, and then click the **Properties** button.
2. In the driver window, on the **Job Options** tab and select **Proof and Print** (2).



3. In the small pop-up window which appears, enter a name for this print job (16 characters maximum) and a 4-digit PIN using any combination of digits from 0 to 7 (do not use 8 or 9), and click **OK**.
4. Click **OK** again to close the driver window, and again to close your application's Print dialogue.

The document will be sent to the printer's hard disk but only the first copy will print.

PRINTING THE REMAINING COPIES

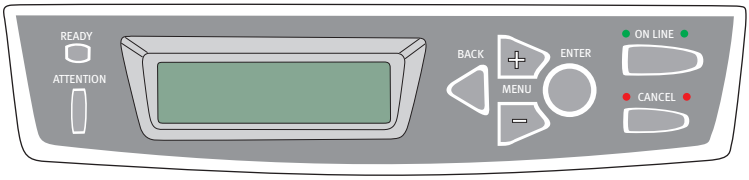
Documents stored on the printer's hard disk may be printed in either of two ways:

> From the printer's operator panel;

or...

> From your PC desktop, using the Storage Device Manager utility supplied on CD1 (Drivers and Utilities) with the printer.

Printing from the operator panel



1. Press the **+** button to access the Print Jobs menu.
2. Press **ENTER** to select this menu.
3. Use the **+/–** buttons to display the first digit of your PIN, and then press **ENTER** to enter this digit. Repeat this procedure for each of the four digits.
4. Use the **+/–** buttons to display each of your stored documents in turn. When the required selection is displayed, press **ENTER** to print the document(s).
5. Use the **+/–** buttons to choose the number of copies you want and press **ENTER** to begin printing.

   After a short pause while the selected document is processed it will begin printing. When printing is complete the document will automatically be deleted from the printer's hard disk.

Printing from your PC desktop

If you have installed the Storage Device Manager software from the supplied CD, you can also print the remaining copies directly from your PC desktop.

1. From the Windows **Start** menu, run Storage Device Manager.
2. If necessary, use the **SDM Printer Discovery** window to find all available printers on your network or connected to your computer.
3. Select the icon for the printer holding your secure documents.
4. From the **Printers** menu, choose **HDD Print Jobs**.
5. In the HDD Print Jobs window, choose the **View User Jobs** option button and enter your PIN in the text box provided. After a short pause, a list of your print jobs will appear.
6. In the list of print jobs, select the job you wish to print and click **Print Job(s)**. If necessary, adjust the number of copies you want when the prompt appears.

   After a short pause while the selected document is processed it will begin printing. When printing is complete the document will automatically be deleted from the printer's hard disk.

PERMANENT PRINT DOCUMENTS

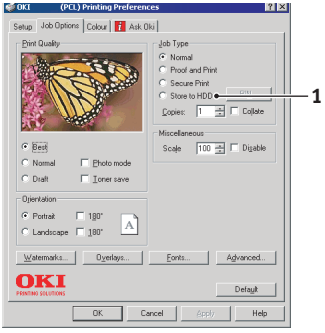
With this feature you can create standard documents that you often need to print and store them on your printer's internal hard disk. You can then print them at any time without having to send them again from your computer.

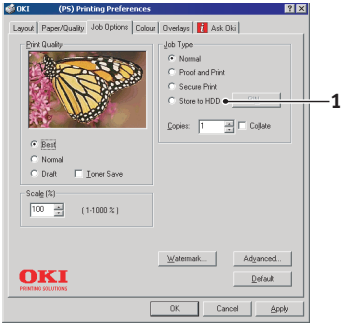
NOTE
This feature requires the optional internal hard disk.

SENDING THE DOCUMENT TO PRINT

1. From your application's Print dialogue, select your printing choices in the normal way, and then click the **Properties** button.

2. In the driver window, on the **Job Options** tab and select **Store to HDD** (1).





3. In the small pop-up window which appears, enter a name for this print job (16 characters maximum) and a 4-digit PIN using any combination of digits from 0 to 7 (do not use 8 or 9), and click **OK**.

4. Click **OK** again to close the driver window, and again to close your application's Print dialogue.

The document will be sent to the printer's hard disk but will not print.

PRINTING STORED DOCUMENTS

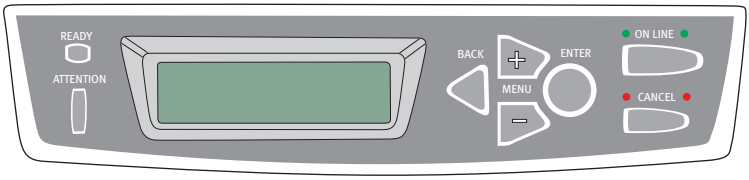
Documents stored on the printer's hard disk may be printed in either of two ways:

> From the printer's operator panel;

or...

> From your PC desktop, using the Storage Device Manager utility supplied on CD1 (Drivers and Utilities) with the printer.

Printing from the operator panel



1. Press the **+** button to access the Print Jobs menu.

2. Press **ENTER** to select this menu.

3. Use the **+/–** buttons to display the first digit of your PIN, and then press **ENTER** to enter this digit. Repeat this procedure for each of the four digits.

4. Use the **+/–** buttons to display each of your stored secure documents in turn, or to select all documents. When the required selection is displayed, press **ENTER** to print the document(s).

5. If you have only selected a single document to print, the display will prompt you for the number of collated copies you wish to print (default is 1 copy). Use the **+/–** buttons to choose the number of copies you want and press **ENTER** to begin printing.

After a short pause the selected document will print.

Printing from your PC desktop

If you have installed the Storage Device Manager software from the supplied CD, you can also print permanently stored documents directly from your PC desktop.

1. From the Windows **Start** menu, run Storage Device Manager.
2. If necessary, use the **SDM Printer Discovery** window to find all available printers on your network or connected to your computer.
3. Select the icon for the printer holding your secure documents.
4. From the **Printers** menu, choose **HDD Print Jobs**.
5. In the HDD Print Jobs window, choose the **View User Jobs** option button and enter your PIN in the text box provided. After a short pause, a list of your print jobs will appear.
6. In the list of print jobs, select the job you wish to print and click **Print Job(s)**. If necessary, adjust the number of copies you want when the prompt appears.

   After a short pause the selected document will print.

OPERATION

With its intuitive control panel, this Multi Function Product (MFP) is designed to be easy to use. After the machine has been configured, operating is quite straight forward.

1. Place your paper either in the ADF or on the glass.
2. Press Copy Mode, or Scan Mode on the control panel.
3. If you select Scan Mode, enter your e-mail address via the numeric keypad or select an address from the address book by pressing Address Book in the “To” field or choose a profile by pressing FTP Address In the "To" field.
4. Press Mono or Color to start scanning and send the scanned document to your printer, e-mail address, or file server.

The following sections describe the advanced steps on how to make a copy of your scanned document and how to distribute your document on the internet.

LOADING DOCUMENT(S) FOR COPYING

This MFP can scan/copy/send document(s) either in the ADF (Automatic Document Feeder) or on the glass. If you need to send multiple pages, load your papers in the ADF. The ADF can hold up to 50 pages at one time.

If you need to scan/copy/send pages from books, newspaper clippings, or paper with wrinkles or curls, place them on the glass.

USING THE ADF

Before using the ADF, please make sure that your paper meets the following specifications:

- Document(s) can range in size from 4.5 x 5.5 inches (114.3 x 139.7mm) to 8.5 x 14 inches (215.9 x 355.6mm).
- Document(s) can range in weight from 16 to 28 lbs (0.002" to 0.006").
- Document(s) should be square or rectangular and in good condition (not fragile or worn).

> Document(s) should be free of curl, wrinkle, tears, wet ink, or punch holes.

> Document(s) should be free of staples, paper clips, paper sticky notes.

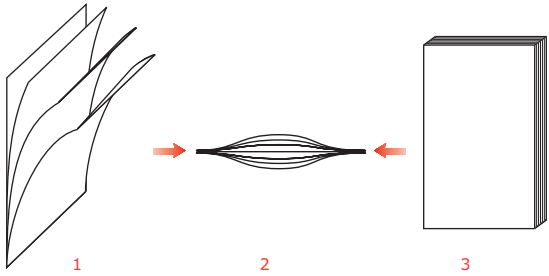
> Keep the glass clean and without any documents left on it.

NOTE:
To transmit irregular types of document(s), place the document(s) on the glass or make a copy first and then transmit the copy instead.

PLACING DOCUMENT(S) IN THE ADF

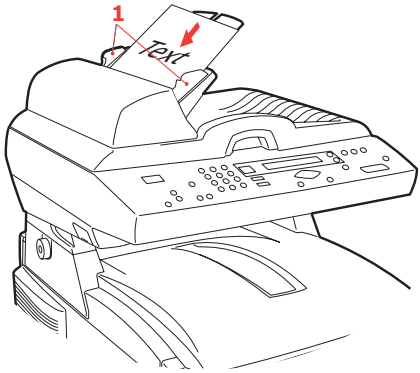
1. Make sure document(s) are free of staples, paper clips and not torn.

2. If you have multiple pages, fan the pages to avoid paper jams. The ADF holds up to 50 pages at one time.



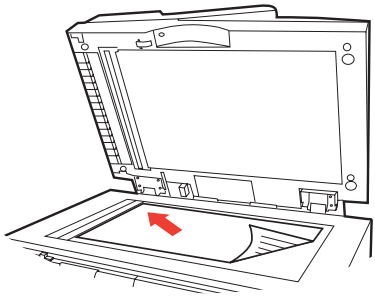
3. Place the document with the text face UP in the ADF and make sure that the top of each page is fed in first.

4. Adjust the Paper Guides (1) to centre the document in the ADF.



Placing Document(s) on the Glass

1. Open the document cover.
2. Place your document with the text face DOWN on the glass and align it to the upper-left corner.



3. Close the document cover.

Sending Document(s) via E-mail

Basic Operation

1. Place your document(s) with text face **UP** in the ADF or face **DOWN** on the glass (as described above).
2. Press **Scan** to mode on the control panel. The E-mail screen will appear. (Press the down key to display next item.)
3. In the "To" field, enter the destination e-mail address from the Address Book by pressing Address Book on the control panel. Use the up and down arrows on the control panel to select multiple e-mail addresses and press the **OK/ SELECT** button. Or you may simply type the initial letter of the e-mail address for a fast operation. Press **RETURN** to return to the E-mail main screen.
4. Enter or select CC and BCC address as well, if necessary. Enter the subject of your E-mail. If not entered, “Default Subj.” will be displayed.
5. Press the **MONO** button to send your document(s) in black and white, or the **COLOR** button to send your document(s) in colour.

ADVANCED OPERATION

If you are not satisfied with the scanned image, you can use the advanced features to enhance it.

To use the advanced features, press Scan to Mode on the control panel and then Additional Settings to prompt the Additional settings screen. Refer to the following table to modify the scanner settings.

MENU ITEM	DESCRIPTION
Attachment	The file name of the scanned document. Up to 64 characters can be entered in this field.
From	Enter your “From” address. If an e-mail can not be sent, notification is returned to this address. This is also the "From" address in your e-mail when you receive an e-mail from the MFP. Up to 64 characters can be entered in this field.
Reply To Address	Enter a "Reply To Address" address if you wish to specify a reply address which is different from the "From" address. Up to 64 characters can be entered in the field.
Colour output format	Choose the output format for the document to be scanned in colours from PDF, TIFF, JPEG, and MTIFF.
B&W output format	Choose the output format for the document to be scanned in B&W from PDF, TIFF, and MTIFF.
Resolution	Choose the scanning resolution for the scanned document from a selection of 75, 100, 150, 200, 300, 400, 600 dpi. A higher resolution reproduces the image with greater detail, but requires more disk space.
Manual Feed	Multi-batch document scanning can be enabled. Enable Manual Feed when loading more than 50 pages on the ADF or more than one page on the flatbed.

NOTE:

- *If you make a mistake during the process, press STOP on the control panel to cancel the operation.*
- *If you stop typing in the From, Subject, To, CC, or BCC fields for three minutes, the LCD-display automatically clears what you have typed.*
- *This machine allows you to send scanned document(s) to multiple e-mail addresses. Simply add a comma between each address.*
- *Up to 64 characters can be entered in the "Attachment", "To", "From", "CC", "BCC", and the "Def. Subject" field.*
- *If you wish to scan a multi-page document and convert it to a single image file, choose your output file format to be MTIFF or PDF.*

> *If the administrator has set the SMTP or POP3 authentication, after sending your scanned document to e-mail addresses, and if no more transmission is required, press the Logout key on the keyboard to log out of the system. This is to prevent misuse of the user's e-mail account for sending e-mails. If there is no other operation within 3 minutes, the system will log out automatically.*

SENDING DOCUMENT(S) TO A FILE SERVER

Before sending your document to a file server, profiles should be set up first to speed up the process. A profile contains a list of filing parameters such as your filing protocol, directory, file name and other scanning parameters. Add a new profile by either entering the machine's web page or installing and starting the Network Setup Tool on the CD-ROM supplied.

BASIC OPERATION

1. Place your document(s) with text face **UP** in the ADF or face **DOWN** on the glass.
2. Press **Scan** mode and **FTP Address** buttons on the Control Panel. The LCD-display prompts the Filing screen. For example,

   Profile 1

   Profile 2
3. Choose the required profile (filing destination) and press **OK/Select.**
4. Press **Mono** to send your document(s) in black and white, or **Color** to send your document(s) in colour.

   NOTE:
   You can create up to 20 filing profiles from the machine's web site or from the Network Setup Tool.

COPYING

BASIC OPERATION

1. Place your document(s) with text face UP in the ADF or face DOWN on the glass.
2. Press **MONO** to copy your document(s) in black and white, or **COLOR** to copy your document(s) in colour.

   NOTE:
   If you make a mistake during the transmission process, press STOP to cancel the operation.

ADVANCED OPERATION

Set up the Printer Options and Media Type (refer to "The Printer Unit" in the "Configuration" chapter, and the instructions following).

Accessing Additional Settings

Below is the menu for the "Additional Settings" when all printer options are installed (if there are any changes in the option condition, the settings will return to the these factory default settings).

FUNCTION	DEFAULT SETTINGS	
Collate	With standard memory (128Mb)	With additional memory (320Mb)
	Colour: 5 pages Mono: 20 pages	Colour: 14 pages Mono: 50 pages
Duplex	Short edge	
N-up	1	
Edge erase	0	
Margin shift (R)	0	
Margin shift (B)	0	
Paper supply	A4	
Input tray	MP	

Collation:

- ON - The collate function is always enabled
- OFF - The collate function is always disabled.

NOTE:
When "Collate" is set, the items "N-Up" and "Duplex" are not displayed.

Duplex:

- Off
- Short Edge
- Long Edge

NOTE:
Long edge and Short edge are only available when "Scaling = 100%" and "Quality = Speed".

N-Up (Paper Save)

- 1 in 1
- 4 in 1

NOTE:
When "N-Up" is set to other than "1 in 1", the "Collate" item is not displayed.

Edge Erase

- 0/6/13/19/25 (mm)

Margin Shift

- Right 0/6/13/19/25 (mm)
- Bottom 0/6/13/19/25 (mm)

Input Tray

- Auto
- Tray 1
- Tray 2
- MP

Paper Supply

- Legal
- Letter
- A4
- B5
- A5

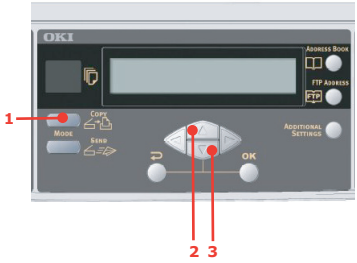
Changing Scaling

The machine is preset to 100% scaling. If you wish to reduce or enlarge your original, you can apply this feature to enlarge up to 400% or reduce down to 25%.

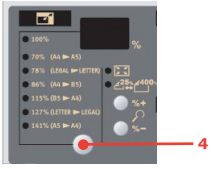
To reduce or enlarge the original document:

1. Press **Copy** mode (1) on the Control panel to prompt the Copy screen.

2. Press the **Select** (4) button to choose a preset value from 200%, 127%, 100%, 98% (Fit to page), 78%, 50%, and 25%.



3. Choose Variable and then press the **UP** (2) or **DOWN** (3) arrow to enlarge or reduce your document in 1% increments.



NOTE:
After you have completed copying the machine will automatically return to the preset scale.

Improving Copy Quality.

The machine is preset to "Speed". If required, you can change to "Fine" to improve the copy quality.

To change copy quality:

1. Press the **Copy** mode button on the control panel to prompt the Copy screen.
2. Click the **Copy Quality** button and select "Fine".

   NOTE:
   After you have completed your copying, the machine will automatically return to the preset document quality.

Adjusting Density

The machine is preset to the "Normal" level of density. If your original document comes with a lighter or darker contrast, you can improve the quality by using the Adjusting Density feature.

To change density:

1. Press the **Copy** mode button on the panel to prompt the Copy screen.
2. Press the **Density** button to choose the density required.

   NOTE:
   After you have completed copying, the machine will automatically return to the preset value.

Increasing Copy Count

The machine is preset to a copy count of 1. If you wish to increase the number of copies, select the number of copies with the numeric keypad.

To increase the copy count:

1. Press the **Copy** mode button on the control panel to prompt the Copy screen.
2. Enter number of copies required with the numeric keypad. The LCD display will confirm the copy count selected.

SCANNING

SYSTEM REQUIREMENTS

- IBM compatible PC (Pentium or later)
- Windows 98, Windows Me, Windows 2000, Windows XP
- A USB (universal serial bus) port
- At least 100M bytes of free hard disk space
- At least 128M bytes of system memory
- VGA monitor
- CD-ROM drive

INSTALLATION PROCEDURE

1. Start Microsoft Windows.
2. Insert the CD-ROM supplied into your CD ROM drive.
3. The CD-ROM will auto launch on most systems. However, if your system does not support auto launching CD-ROMs, press the Start button, choose RUN, type d:\driver\setup.exe (d: the CD-ROM drive in use), and then click OK.
4. Follow the on-screen instructions to complete the driver installation.

CAUTION!

To ensure the scan function works properly, install the scanner driver FIRST, before connecting the USB cable to the computer.

SCANNER OPERATION

1. Start your scanning application.
2. Select the **File** menu and choose **Select Source**.

   If the Select Source command is not available on the File menu, see your application's user's guide to determine how the TWAIN link is used. A dialogue box with a list of scanning sources appears.
3. Select **C55x0**.

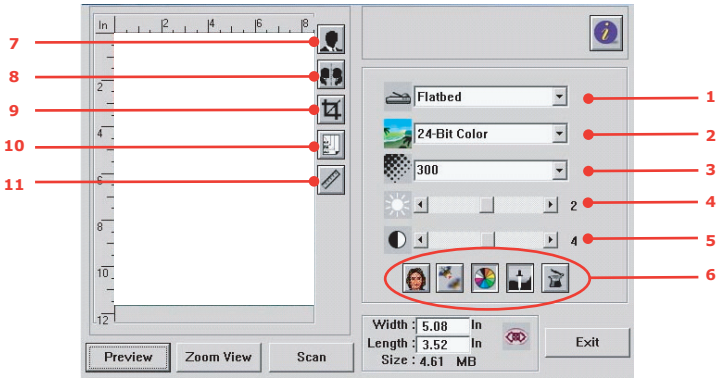
   You need to select the source only once, unless you want to choose another scanner.
4. Place the document face **DOWN** on the document glass or face **UP** in the ADF.
5. Select the **File** menu and choose **Acquire**.

   A dialogue box containing scanning features appears.

6. Select the scanning method you want to use from the **Scan Method** (1) drop-down menu.
7. Select the mode you want to use for your scans from the **Image Type** (2) drop-down menu.
8. Select a scanning resolution from the **Resolution** (3) drop-down menu.
9. Select the setting for the scanning features (e.g. Sharpen, Descreen, etc.) that you want to use (see "enhancing your image" later in this Chapter).

10. Click on the **Preview** or **Scan** button to preview or scan you documents.

A LOOK AT THE USER INTERFACE



1.	Scan Method	Choice: ADF/Multi-page, Flatbed.
2.	Image type	Choice: Black & White, 8-Bit Grey, 24-Bit Color, Half tone.
3.	Resolution	Choice: 50, 72, 100, 144, 150, 200, 300, 600, 1200, 2400, 4800 (dpi).
4.	Brightness	Adjust the brightness level from -100 to +100.
5.	Contrast	Adjust the contrast level from -100 to +100.
6.	Further tools	Descreen, Sharpen, Color Adjustment, Auto Level, Advanced Settings.
7.	Invert	Reverse the color of the scanned image.
8.	Mirror Function	Flip the image.
9.	Preview Auto Area	Resize the scanned area.
10.	Paper Size	Select the paper size from Card 4" x 2.5", Photo 5" x 3.5", Photo 3.5" x 5", Photo 4" x 6", Photo 6" x 4", A5, B5, A4, Letter, Legal, or scanner maximum.
11.	Unit of Measurement	Choice: cm, Inch, and Pixel.

Scan Method

Choice:

- Flatbed: Select this setting if you need to scan photo, or newspaper clippings.
- ADF/Multipage: Select this setting if you need to scan multi-page document from the automatic document feeder (ADF).

Image Type

1. Choose B&W if your original contains only B&W text, pencil or ink sketch.

2. Halftones are the reproduction of an image that gives the illusion of grey. An example of a halftone image would be the pictures you see in newspapers.

3. 8-Bit Grey images contain actual shades of grey.

4. Choose 24-Bit Color (input) if you wish to scan a colour image.

Resolution

The correct resolution will reproduce a clear image with good details. The resolution is measured in dots per inch (dpi).

> *NOTE*
> *An A4 size color image scanned at 300 dpi at True Color mode consumes approximately 25 MB of disk space. A higher resolution (usually means over 600 dpi) is only recommended when you need to scan a small area in True Color mode.*

Adjusting the Brightness and Contrast

1. Brightness

Adjusts the lightness or darkness of an image. The higher the value, the brighter the image.

2. Contrast

Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the larger the greyscale.

Enlarging Previewed Image (zoom)

Enlarge your previewed image to the maximum of the preview window.

> *NOTE:*
> *This function only enlarges your preview image. This does not enlarge the actual image.*

Inverting and Selecting Your Image

1. Invert

The invert command reverses the brightness and the color in the image. For color images, each pixel will be changed into its complementary color when inverted.

2. Mirror Function

Horizontally reverses the image.

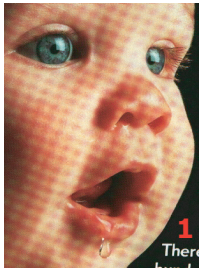
3. Auto Select Image

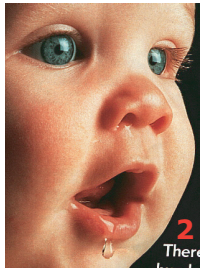
Automatically set the whole image as your scan area. (Or you may resize the area by diagonal "drag and drop".)

Enhancing the Image

1. Descreen

Eliminates the moire* patterns commonly found in printed matter. (1) Before; (2) After.





* *Moire pattern: An undesirable pattern in a color printing resulting from incorrect screen angle of overprinting halftone.*

2. Sharpen

Sharpen the scanned image. (1) Before; (2) After.

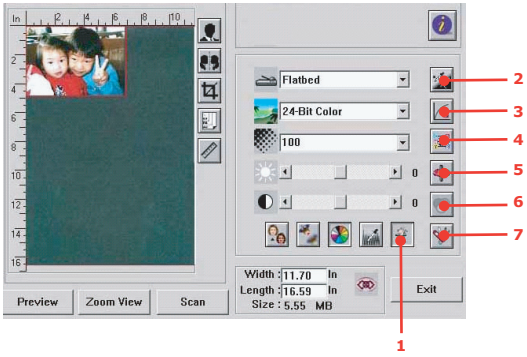
3. Colour Adjustment

Adjusts the colour quality of the image so that it comes close to the original. This function uses default parameters to adjust the image. (1) Before; (2) After.

4. Auto Level

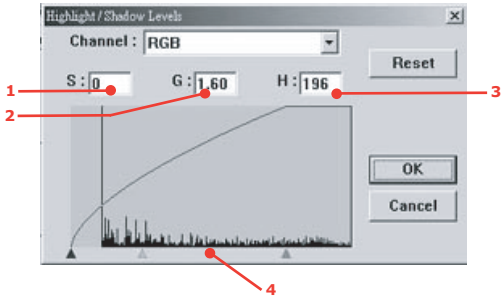
Automatically adjusts the highlight and shadow areas of the scanned image to optimise the following.

Using the advanced Features



1. Click the Switch button (1) to select the Advanced Settings bar (2 to 7). Advanced settings include Highlight/ Shadow, Hue/Saturation/Lightness, Curve, Color Balance, Color Drop-out.

2. Highlight/Shadow Levels



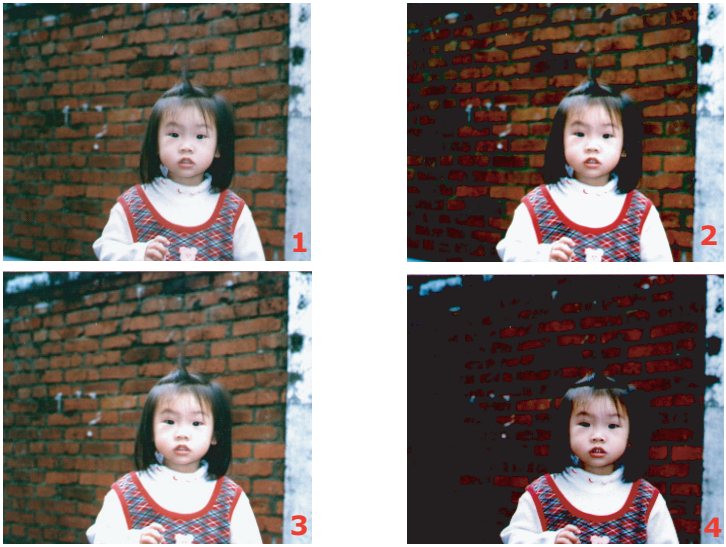
Highlight refers to the lightest point in a scanned image while shadow refers to the darkest point. Using Highlight and Shadow tools together allows you to extend the range of color and reveal more details in a gray or color image.

Shadow (1): The darkest point of an image.
Gamma (2): The middle tones of the image.
Highlight (3): The lightest point of an image.
Pointer (4): Move to change the value.

When the value of gamma changes, the image changes as shown below.

1. Gamma value: 1.0; 2. Gamma Value: 1.4;
3. Gamma Value: 2.0

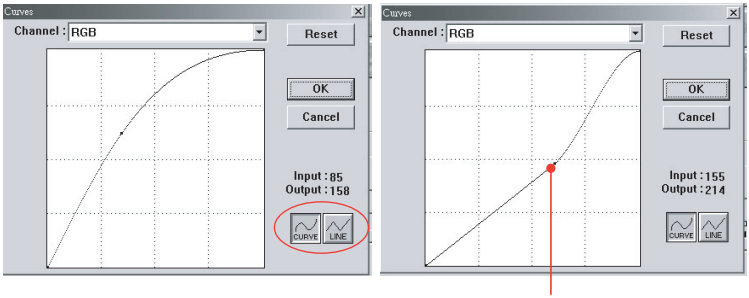
When the value of highlight and shadow change, the image changes as shown below.



1. Highlight: 255/Shadow: 0(Normal);
2. Highlight: 210/Shadow:10; 3. Highlight: 200/Shadow:0;
4. Highlight: 255/Shadow: 50

3. Adjusting the Curve

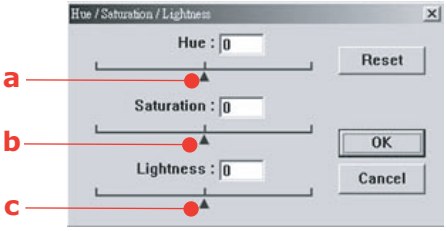
Adjusts the midtones of the image without dramatically altering their lightest and darkest areas.



When the curve is moved up or down, the image will become darker or lighter.

4. Colour Hue/Saturation/Lightness

Improve an image by changing the level of hue/saturation/ lightness.



(a) Hue

Adjust the hue by moving the triangle to the right or left. (Note the level of colour intensity will change simultaneously when the hue adjustment is made).

(b) Saturation

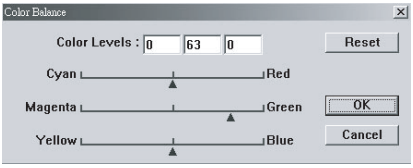
Move the triangle to the right to increase the saturation level or to the left to decrease the level. The level of saturation determines whether the colour is pale or rich.

(c) Lightness

Increase the lightness by moving the triangle to the right or to the left to decrease the lightness.

5. Using Colour Balance

The Color Balance control allows you to set optimal image colour quality.

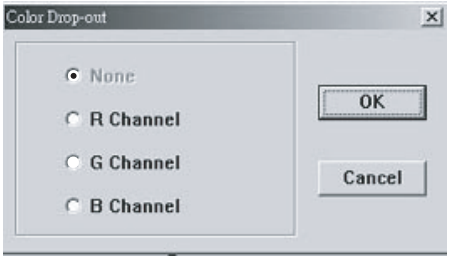


You can either move the relevant pointer toward a colour (in the above example 63% green has been selected) or, if known, enter the figure in the box at the top.

The first box refers to the Cyan/Red percentage content, the second to Magenta/Green and the third to Yellow/Blue.

6. Colour Drop-out

Click the button and the dialogue box below will be displayed. This allows you to remove one of the R (Red), G (Green), or B (Blue) colour channels. This function is particularly useful when converting to text using OCR software.

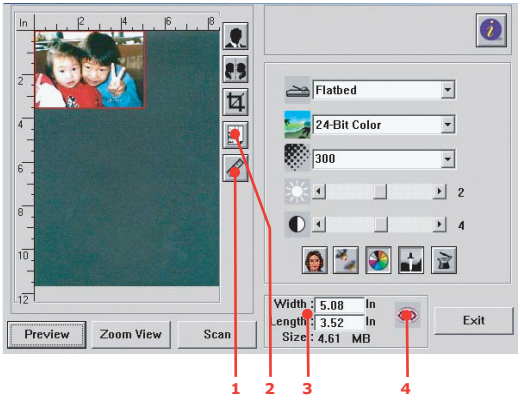


NOTE:
This function supports only black/white and grey images.

7. Using Custom Settings

Click on the Custom Settings button to access a dialogue box where you can save your scan and configuration settings. There are two tabs: Scan Settings and Configuration Settings.

OTHER TOOLS



1. Measuring Unit: Indicates the measuring system in use. By clicking the button, you can change the measuring unit.

Choice: Inch, cm, Pixel.

2. Choice: Card 4" x 2.5", Photo 5" x 3.5", Photo 3.5" x 5", Photo 4" x 6", Photo 6" x 4", B5, A5, A4, Letter and Scanner Maximum.

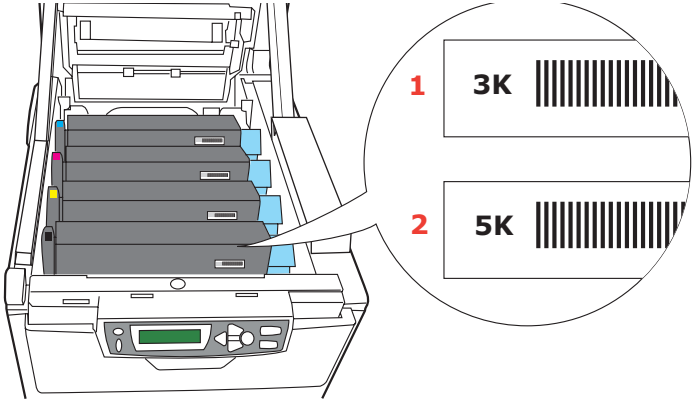
3. Image Size: Display image size for the scanned area.

4. Lock Image: Fix the output width and height.

REPLACING CONSUMABLE ITEMS

This section explains how to replace consumable items when due. As a guide, the life expectancy of these items is:

- Toner — 3,000 (standard capacity) or 5,000 (high capacity) A4 pages at 5% coverage, which means that 5% of the addressable print area is printed with this colour. Toner life is directly affected by coverage, e.g. at 10% coverage there is sufficient toner for 1,500 pages (standard capacity) or 2,500 pages (high capacity), conversely at 2.5% there is sufficient toner for 6,000 pages (standard capacity) or 10,000 pages (high capacity) in the cartridge.
- Image drum — 17,000 pages (calculated on typical office usage where 20% of printing is 1 page only, 30% is 3 page documents and 50% is print runs of 15 pages or more).
- Transfer belt — Approximately 50,000 A4 pages.
- Fuser — Approximately 45,000 A4 pages.



The machine is shipped with sufficient toner for 3,000 A4 pages in each print cartridge of which 1,500 A4 pages worth of toner is used to charge each image drum.

1. Standard capacity toner cartridge.
2. High capacity toner cartridge.

CONSUMABLE ORDER DETAILS

ITEM	LIFE	ORDER NO.
Toner, high capacity, black	5,000 A4 @ 5%	42127457
Toner, high capacity, cyan	5,000 A4 @ 5%	42127456
Toner, high capacity, magenta	5,000 A4 @ 5%	42127455
Toner, high capacity, yellow	5,000 A4 @ 5%	42127454
Toner, rainbow pack (1 ea. CMYK)	5,000 A4 @ 5%	42403002
Toner, standard capacity, black	3,000 A4@ 5%	42804548
Toner, standard capacity, cyan	3,000 A4@ 5%	42804547
Toner, standard capacity, magenta	3,000 A4@ 5%	42804546
Toner, standard capacity, yellow	3,000 A4@ 5%	42804545
Image drum, black	17,000 A4 pages*	42127060
Image drum, cyan	17,000 A4 pages*	42127059
Image drum, magenta	17,000 A4 pages*	42127058
Image drum, yellow	17,000 A4 pages*	42127057
Fuser	45,000 A4 pages	42625503
Transport belt	50,000 A4 @ 3/job	42158712
ADF Pad	100, 000 A4 pages	43103001

* *Average life: 20% pages at continuous print, 50% pages at 3 pages per job and 30% pages at 1 page per job.*

Only use genuine Oki Original consumables to ensure the best quality and performance from your hardware. Non Oki Original products may damage your printer's performance and invalidate your warranty. Specifications subject to change without notice. All trademarks acknowledged.

TONER CARTRIDGE REPLACEMENT

CAUTION!

To avoid toner wastage and possible toner sensor errors, do not change the toner cartridge(s) until "TONER EMPTY" is displayed.

The toner used in this machine is a very fine dry powder. It is contained in four cartridges: one each for cyan, magenta, yellow and black.

Have a sheet of paper handy so that you have somewhere to place the used cartridge while you install the new one.

Dispose of the old cartridge responsibly, inside the pack that the new one came in. Follow any regulations, recommendations, etc., which may be in force concerning waste recycling.

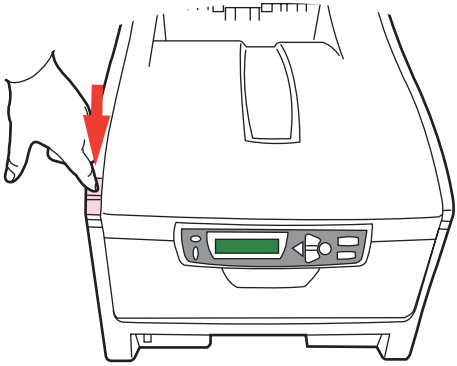
If you do spill any toner powder, lightly brush it off. If this is not enough, use a cool, damp cloth to remove any residue. *Do not use hot water, and never use solvents of any kind. They will make stains permanent.*

WARNING!

If you inhale any toner or get it in your eyes, drink a little water or bathe your eyes liberally in cold water. Seek medical attention immediately.

Switch off the machine and allow the fuser to cool for about 10 minutes before opening the cover.

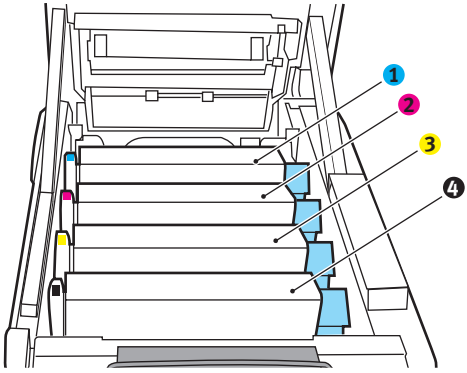
1. Press the cover release and open the machine's top cover fully.



WARNING!

If the machine has been powered on, the fuser may be hot. This area is clearly labelled. Do not touch.

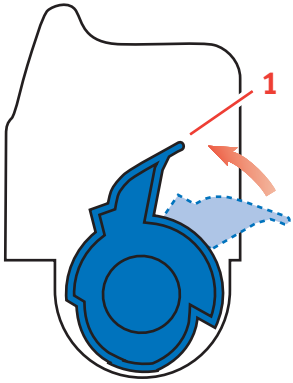
2. Note the positions of the four cartridges.



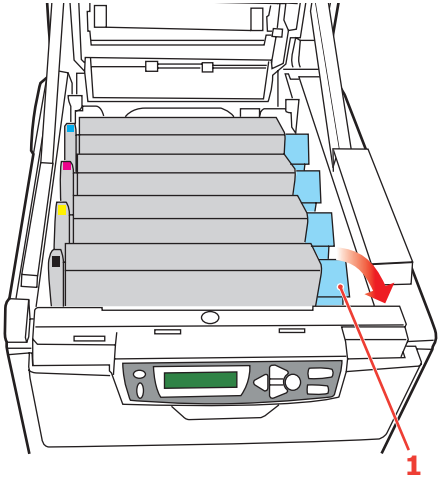
1. Cyan cartridge
2. Magenta cartridge
3. Yellow cartridge
4. Black cartridge

3. Carry out one of the following:

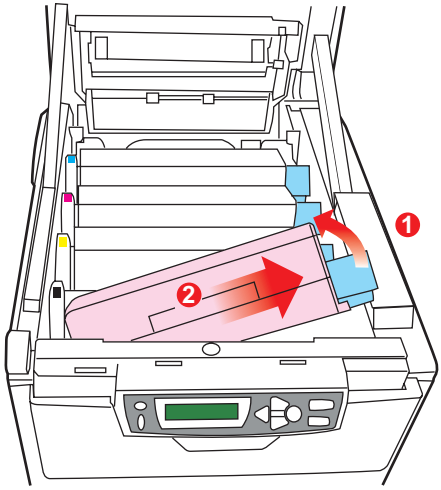
(a) If you are replacing a toner cartridge that has been supplied with your machine (release lever has 3 positions), pull the coloured toner release lever on the cartridge to be replaced towards the front of the machine, in the direction of the arrow, but stop at the central (upright) position (1).



(b) If you are replacing any other toner cartridge (lever has 2 positions), pull the coloured toner release lever (1) on the cartridge to be replaced fully towards the front of the machine.



4. Lift the right-hand end of the cartridge and then draw the cartridge to the right to release the left-hand end as shown, and withdraw the toner cartridge from the machine.



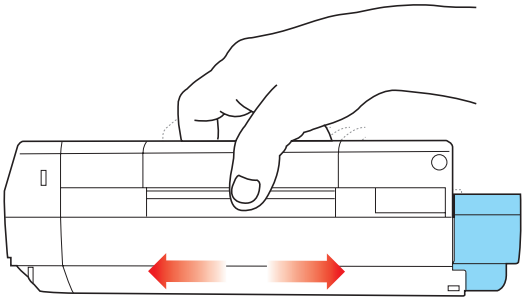
5. Put the cartridge down gently onto a piece of paper to prevent toner from marking your furniture and to avoid damaging the green drum surface.

CAUTION!

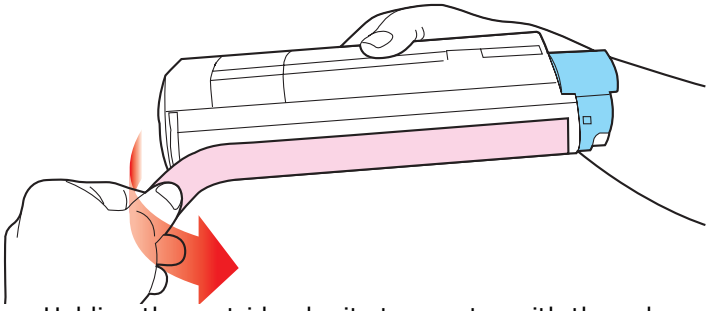
The green image drum surface at the base of the cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the machine for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

6. Remove the new cartridge from its box but leave its wrapping material in place for the moment.

7. Gently shake the new cartridge from end to end several times to loosen and distribute the toner evenly inside the cartridge.

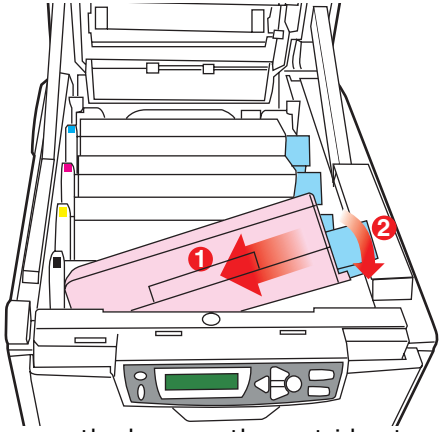


8. Remove the wrapping material and peel off the adhesive tape from the underside of the cartridge.

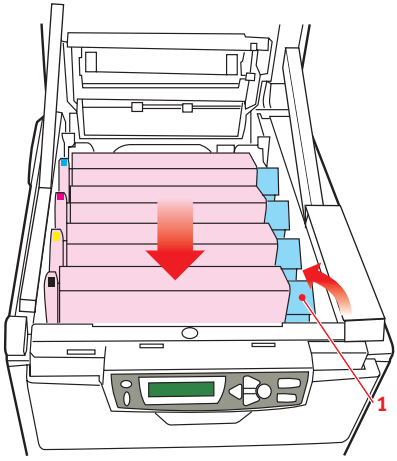


9. Holding the cartridge by its top centre with the coloured lever to the right, lower it into the machine over the image drum unit from which the old cartridge was removed.

10. Insert the left end of the cartridge into the top of the image drum unit first, pushing it against the spring on the drum unit, then lower the right end of the cartridge onto the image drum unit.



11. Pressing gently down on the cartridge to ensure that it is firmly seated, push the coloured lever (1) towards the rear of the machine. This will lock the cartridge into place and release toner into the image drum unit.



12. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

IMAGE DRUM REPLACEMENT

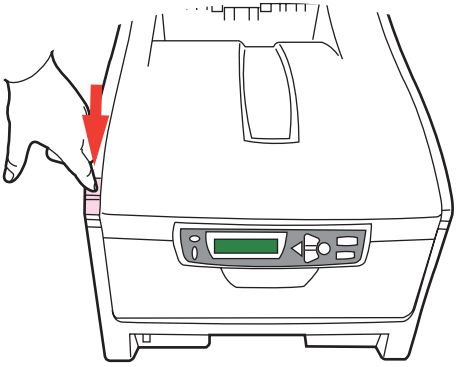
Switch off the machine and allow the fuser to cool for about 10 minutes before opening the cover.

CAUTION!

Static sensitive devices, handle with care.

The machine contains four image drums: cyan, magenta, yellow and black.

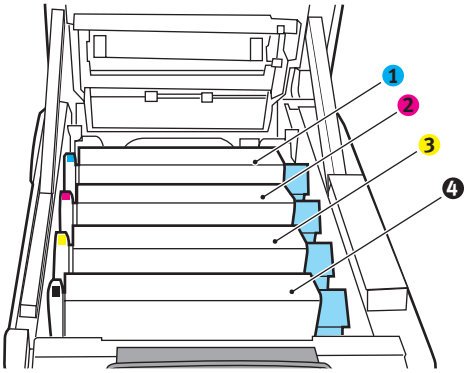
1. Press the cover release and open the machine's top cover fully.



WARNING!

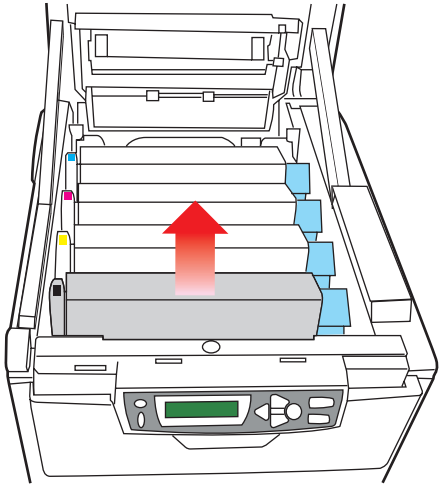
If the machine has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

2. Note the positions of the four cartridges.



1. Cyan cartridge
2. Magenta cartridge
3. Yellow cartridge
4. Black cartridge

3. Holding it by its top centre, lift the image drum, complete with its toner cartridge, up and out of the machine.

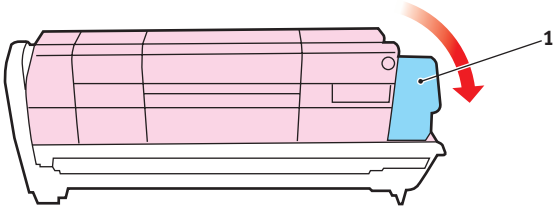


4. Put the cartridge down gently onto a piece of paper to prevent toner from marking your furniture and to avoid damaging the green drum surface.

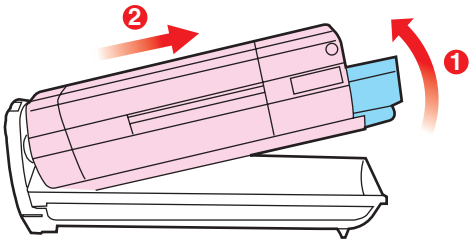
CAUTION!

The green image drum surface at the base of the cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the machine for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

5. With the coloured toner release lever (1) to the right, pull the lever towards you. This will release the bond between the toner cartridge and the image drum cartridge.

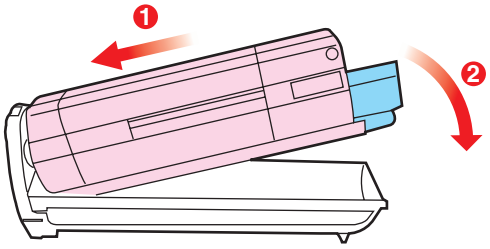


6. Lift the right-hand end of the cartridge and then draw the cartridge to the right to release the left-hand end as shown, and withdraw the toner cartridge from the image drum cartridge. Place the cartridge on a piece of paper to avoid marking your furniture.

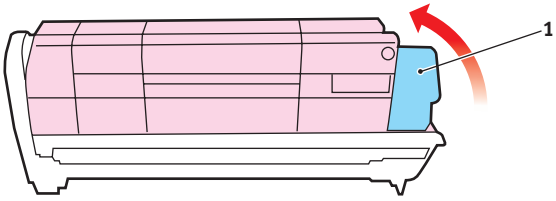


7. Take the new image drum cartridge out of its packaging and place it on the piece of paper where the old cartridge was placed. Keep it the same way round as the old unit. Pack the old cartridge inside the packaging material for disposal.

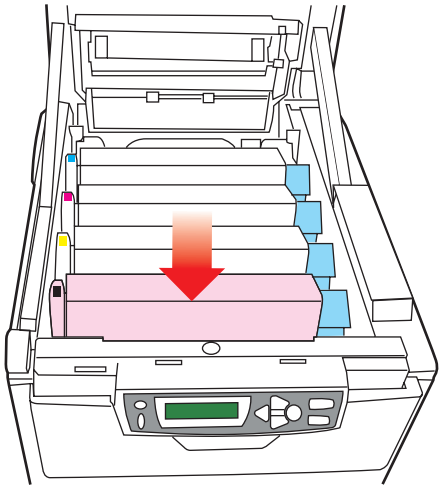
8. Place the toner cartridge onto the new image drum cartridge as shown. Push the left end in first, and then lower the right end in. (It is not necessary to fit a new toner cartridge at this time unless the remaining toner level is very low.)



9. Push the coloured release lever (1) away from you to lock the toner cartridge onto the new image drum unit and release toner into it.



10. Holding the complete assembly by its top centre, lower it into place in the machine, locating the pegs at each end into their slots in the sides of the printer cavity.



11. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

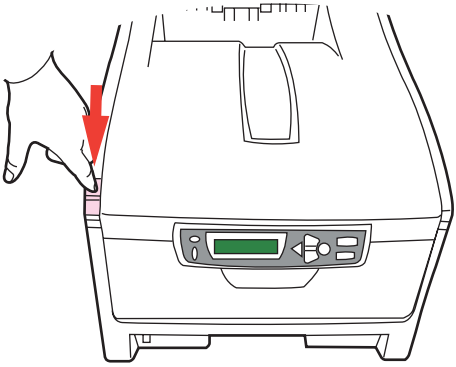
NOTE:
If you need to return or transport this product for any reason, please make sure you remove the image drum unit beforehand and place in the bag provided. This is to avoid toner spillage.

REPLACING THE BELT UNIT

The belt unit is located under the four image drums. This unit requires replacement approximately every 50,000 pages.

Switch off the machine and allow the fuser to cool for about 10 minutes before opening the cover.

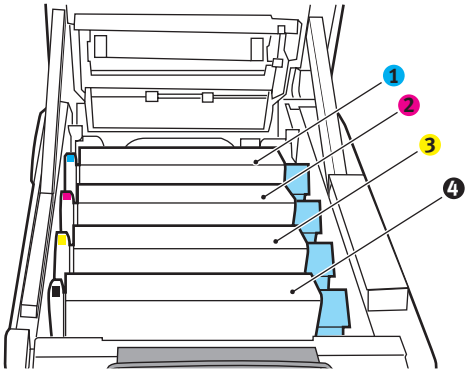
1. Press the cover release and open the machine's top cover fully.



WARNING!

If the machine has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

2. Note the positions of the four cartridges. It is essential that they go back in the same order



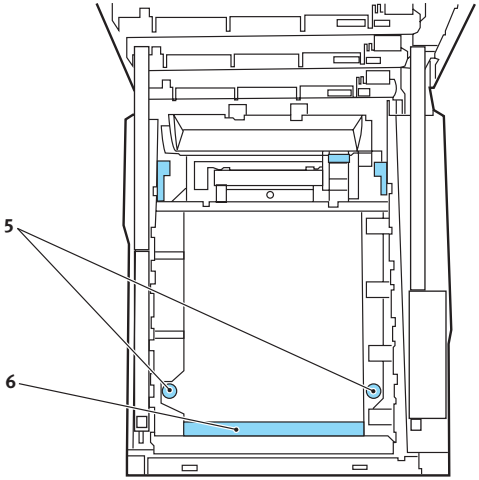
1. Cyan cartridge
2. Magenta cartridge
3. Yellow cartridge
4. Black cartridge

3. Lift each of the image drum units, starting from the rear, out of the machine and place them in a safe place away from direct sources of heat and light.

CAUTION!

The green image drum surface at the base of each cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the machine for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

4. Locate the two fasteners (5) at each side of the belt and the lifting bar (6) at the front end.



5. Turn the two fasteners 90° to the left. This will release the belt from the printer chassis.

6. Pull the lifting bar (6) upwards so that belt tilts up towards the front, and withdraw the belt unit from the machine.

7. Lower the new belt unit into place, with the lifting bar at the front and the drive gear towards the rear of the machine. Locate the drive gear into the gear inside the machine by the rear left corner of the unit, and lower the belt unit flat inside the machine.

8. Turn the two fasteners (5) 90° to the right until they lock. This will secure the belt unit in place.

9. Replace the four image drums, complete with their toner cartridges, into the machine in the same sequence as they came out: cyan (nearest the rear), magenta, yellow and black (nearest the front).

10. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

FUSER REPLACEMENT

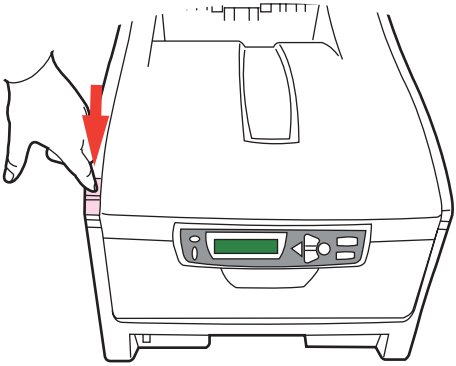
The fuser is located inside the machine just behind the four image drum units.

WARNING!

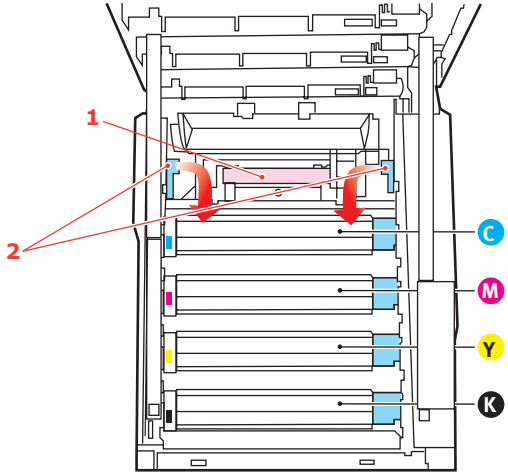
If the machine has recently been powered on, some fuser components will be very hot. Handle the fuser with extreme care, holding it only by its handle, which will only be mildly warm to the touch. A warning label clearly indicates the area. If in doubt, switch the machine off and wait at least 10 minutes for the fuser to cool before opening the machine cover.

Switch off the machine and allow the fuser to cool for about 10 minutes before opening the cover.

1. Press the cover release and open the machine's top cover fully.



2. Identify the fuser handle (1) on the top of the fuser unit.

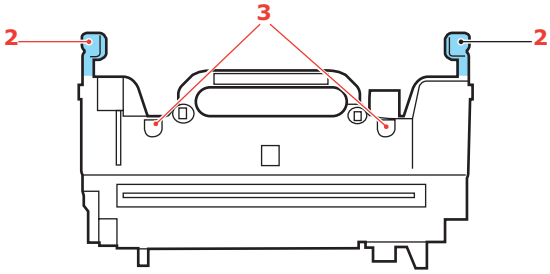


3. Pull the two fuser retaining levers (2) towards the front of the machine so that they are fully upright.

4. Holding the fuser by its handle (1), lift the fuser straight up and out of the machine. If the fuser is still warm, place it on a flat surface which will not be damaged by heat.

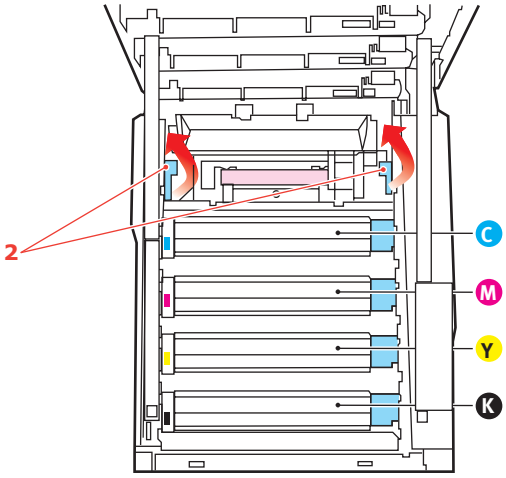
5. Remove the new fuser from its packaging and remove the transit material.

6. Holding the new fuser by its handle, make sure that it is the correct way round. The retaining levers (2) should be fully upright, and the two locating lugs (3) should be towards you.



7. Lower the fuser into the machine, locating the two lugs (3) into their slots in the metal partition which separates the fuser area from the image drums.

8. Push the two retaining levers (2) towards the rear of the machine to lock the fuser in place.

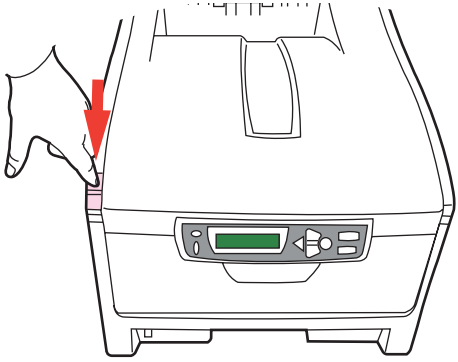


9. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

CLEANING THE LED HEAD

Clean the LED head when printing does not come out clearly, has white lines or when text is blurred.

1. Switch off the printer and open the top cover.



2. Gently wipe the LED head surface with LED lens cleaner or soft tissue.

CAUTION!

Do not use methyl alcohol or other solvents on the LED head as damage to the lens surface will occur.

3. Close the top cover.

INSTALLING UPGRADES

This section explains how to install optional equipment into your printer. This includes:

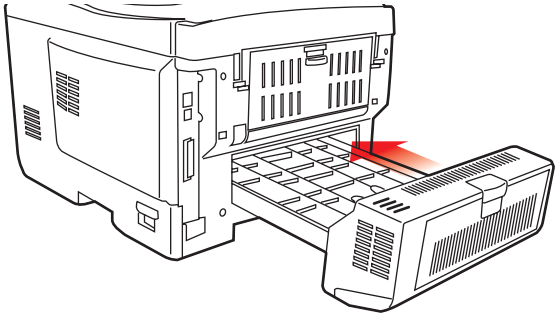
- duplex (two-sided printing) unit;
- additional RAM memory;
- 20GB hard disk drive.

DUPLEX UNIT

The duplex unit adds the function of two-sided printing, using less paper and making large documents easier to handle. It also enables booklet printing, which uses even less paper and makes large documents even easier to handle.

The duplex unit slides straight into the rear of the printer and requires no tools to install.

1. Unpack the new unit and remove any transit material from it.
2. Switch the printer off. It is not necessary to disconnect the AC power cable.
3. Ensure that the unit is the right way up, as shown, and push it into the slot behind the rear panel. The panel will swing inwards as you push the unit into it. Push the unit all the way in until it stops and latches home.



4. Switch the printer on and wait for it to warm up (about 1 minute).

5. Print a menu map as follows:

   (a) Press the + button to access the Information Menu.

   (b) Press **ENTER** once for the menu map.

   (c) Press **ENTER** again to print the menu map.

   (d) When the menu map is printed, press **ON LINE** to exit the menu system.

6. Examine the first page of the menu map.

   Near the top of the page, between the two horizontal lines, you will see the current printer configuration. This list should indicate that the duplex unit is now installed.

   All that remains is to adjust the Windows printer driver to make full use of the new features.

MEMORY UPGRADE

This section explains how to install additional RAM memory into your MFP as a memory upgrade.

ORDER CODES

Use the following order codes for additional memory:

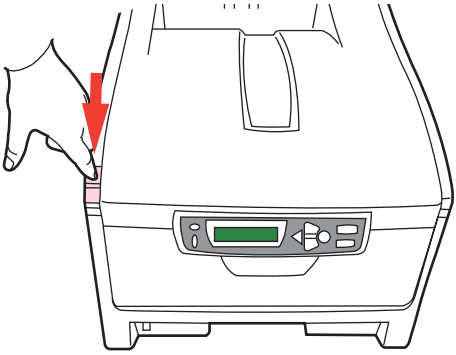
> 256MB RAM – 01110302

The model comes equipped with 128MB of main memory (64Mb plus 64Mb). This can be upgraded with an additional memory board containing 256MB, giving a maximum total memory capacity of 320MB.

Installation takes a few minutes, and requires a medium size cross-head (Philips type) screwdriver.

1. Switch the machine off and disconnect the AC power cable.

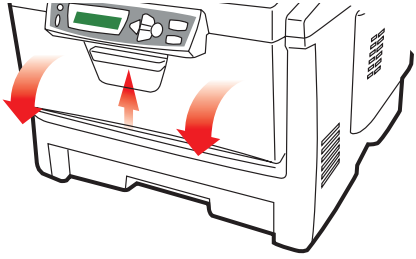
2. Press the cover release and open the machine's top cover fully.



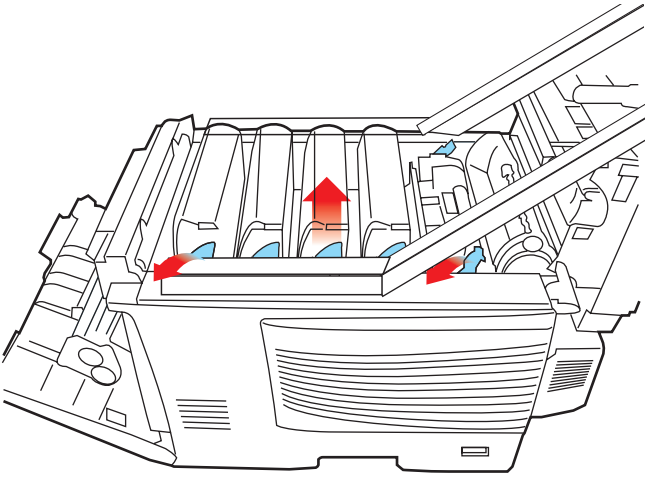
WARNING!

If the machine has been powered on recently, the fuser will be hot. This area is clearly labelled. Do not touch.

3. Lift the front cover latch and pull open the front cover.



4. Remove the screw securing the right-hand side cover.

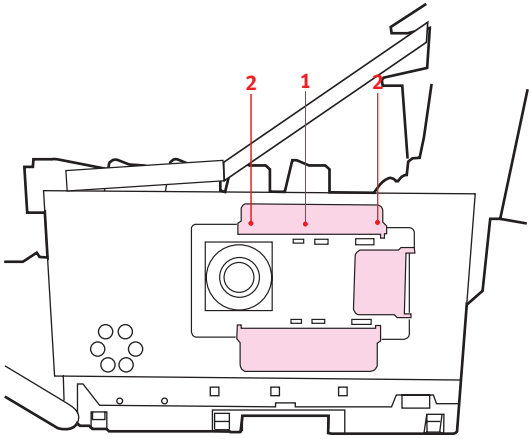


5. Lift the edge of the side cover slightly at the two points shown, and pull the cover away from the printer at the top. Lift the cover slightly to detach it from the machine. Place it safely to one side.

6. Carefully remove the new memory board from its wrapping. Try to handle the board only by its short edges, avoiding contact with any metal parts as far as possible. In particular, avoid touching the edge connector.

7. Notice that the memory board has a small cutout in the edge connector, which is closer to one end than the other.

8. Identify the RAM expansion slot (1) in the machine.



9. The RAM expansion slot already contains a memory board. It will have to be removed before you can install the new one. To remove it proceed as follows:

(a) Identify the locking clips (2) at each end of the RAM expansion slot (1).

(b) Push the clips outward and back into the machine. The board will pop out slightly.

(c) Grip the board firmly by its short edges and pull it out of the slot.

(d) Place the removed memory board in the antistatic bag which originally contained the new memory board.

10. Hold the new memory board by its short edges, so that the edge connector faces in towards the RAM expansion slot, and the small cutout is closer to the bottom of the machine.

11. Gently push the board into the RAM expansion slot until it latches in and will not go any further.

12. Locate the three retaining clips at the bottom of the side cover into their rectangular holes near the bottom of the machine.

13. Close the top of the side cover up to the printer and refit the securing screw removed in step 4.

14. Close the front cover and close the top cover, pressing down firmly at each side to latch it closed.

15. Reconnect the AC power cable and switch the machine on.

16. When the machine is ready, print a menu map as follows:

(a) Press the + button to access the Information Menu.

(b) Press **ENTER** once for the menu map.

(c) Press **ENTER** again to print the menu map.

(d) When the menu map is printed, press The **ON LINE** button to exit the menu system.

17. Examine the first page of the menu map.

Near the top of the page, between the two horizontal lines, you will see the current printer configuration. This list contains the figure for total memory size.

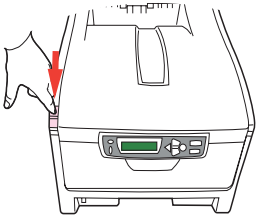
This should indicate the total memory now installed, which should be the size of memory board you have installed plus 64MB.

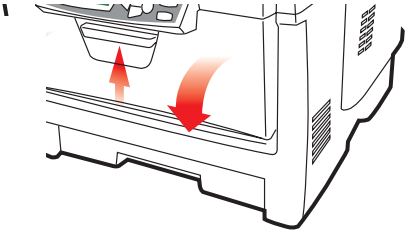
HARD DISK DRIVE

The optional 20GB internal hard disk drive (HDD) enables collating of printed pages and can be used to store overlays and macros, fonts, and secure or proof documents waiting to be printed.

Installation takes a few minutes, and requires a medium size cross-head (philips type) screwdriver.

1. Switch the printer off and disconnect the AC power cable.
2. Press the cover release and open the printer's top cover fully.

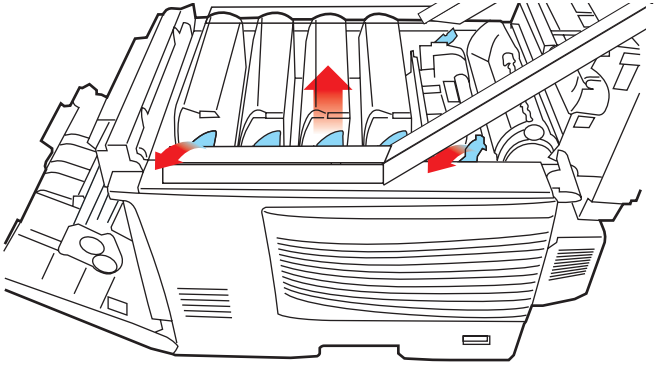




WARNING!

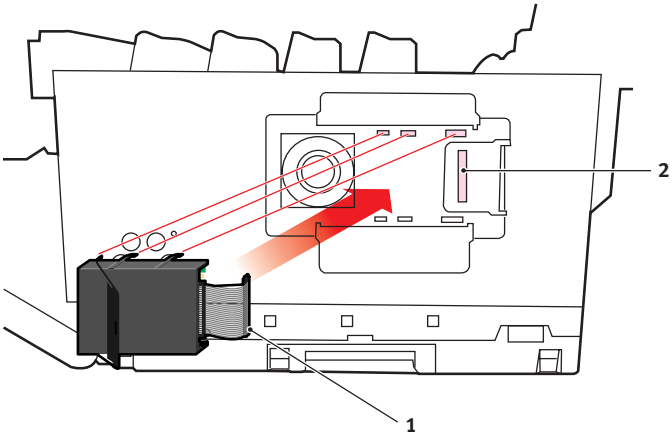
If the printer has been powered on recently, the fuser will be hot. This area is clearly labelled. Do not touch.

3. Lift the front cover latch and pull open the front cover.
4. Remove the screw securing the right-hand side cover.



5. Lift the edge of the side cover slightly at the two points shown, and pull the cover away from the printer at the top. Lift the cover slightly to detach it from the printer. Place it safely to one side.

6. Identify the six locating holes indicated in the illustration, which will be used to locate the disk unit onto the side of the printer.



7. With the component side of the disk unit facing the printer, and the connector cable towards the rear, lift the disk unit handle away from the disk body.

8. Plug the end of the connecting cable (1) into the disk unit connector (2) in the printer.

9. Locate the six legs of the disk unit into the mounting holes on the printer.

10. Push the handle flat against the disk unit, which will lever the unit slightly towards the rear of the printer, locking it into place.

11. Locate the three retaining clips at the bottom of the side cover into their rectangular holes near the bottom of the printer.

12. Close the top of the side cover up to the printer and refit the securing screw removed in step 4.

13. Close the front cover and close the top cover, pressing down firmly at each side to latch it closed.

14. Reconnect the AC power cable and switch the printer on.

15. When the printer is ready, print a menu map as follows:

    (a) Press the + button to access the Information Menu.

    (b) Press **ENTER** once for the menu map.

    (c) Press **ENTER** again to print the menu map.

    (d) When the menu map is printed, press **ON LINE** to exit the menu system.

16. Examine the first page of the menu map.

    Near the top of the page, between the two horizontal lines, you will see the current printer configuration. This should now indicate that the hard disk unit is installed.

All that remains is to configure the Windows printer driver so that it knows the hard disk unit has been fitted, and the additional features can be made available immediately.

ADJUSTING WINDOWS PRINTER DRIVERS

Once your new upgrade has been installed, you may need to update the Windows printer driver so that the additional features are available to your Windows applications.

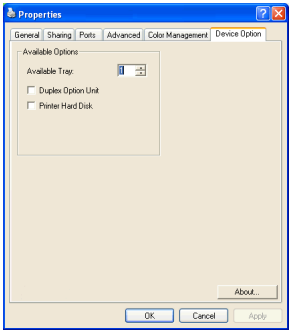
Remember that if your printer is shared between users on different computers, the driver must be adjusted on each user's machine.

The illustrations shown here are for Windows XP. Other Windows versions may appear slightly different, but the principles are the same.

PCL DRIVER

If you have installed a memory upgrade it is not necessary to change the PCL printer driver, and you can ignore this section.

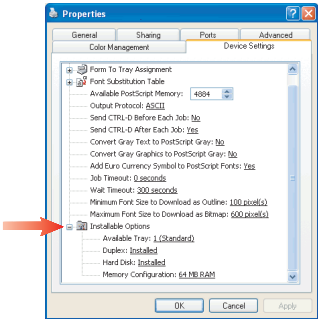
If you have installed a duplex unit or hard disk, proceed as follows:



1. Open the Printers window (called "Printers and Faxes" in Windows XP) via the Start Menu or from the Windows Control Panel.
2. Right-click the printer icon for this printer, and choose Properties from the pop-up menu.
3. On the Device Options tab, check the box for the upgrade you have just installed.
4. Click OK to close the properties window, and then close the Printers window.

POSTSCRIPT DRIVER

This driver must be adjusted for any upgrade just installed.



1. Open the Printers window (called "Printers and Faxes" in Windows XP) via the Start Menu or from the Windows Control Panel.
2. Right-click the printer icon for this printer, and choose Properties from the pop-up menu.
3. On the Device Settings tab, locate the list of installable options. Change those settings to indicate the new features you have just installed.
4. Click OK to close the properties window, and then close the Printers window.

TROUBLESHOOTING

INFORMATION CODES/MESSAGES

INFORMATION CODES DURING SCANNING AND COPYING

CODE	MEANING	ACTION
10001	SDRAM error	Restart the machine. (Turn it off and on again). If the code still appears, contact your dealer.
10006	Home sensor error	Restart the machine. (Turn it off and on again). If the code still appears, contact your dealer.
10007	Lamp error	Restart the machine. (Turn it off and on again). If the code still appears, contact your dealer.
10009	Paper jam (ADF)	Open the ADF cover, remove the paper and close the cover. (see "Clearing Paper Jams" later in this Chapter. If the code still appears, contact your dealer.
10010	Cover Open	Close the ADF cover. If the code still appears, contact your dealer.
10099	Lock error	Turn off the machine. Locate the lock switch underneath the cover on the left hand side of the scanner module and unlock the scanner. Restart the machine. If the code still appears, contact your dealer.
20002	Connect printer error	Check the printer cable.
20003	Printer error	Check the printer. If the code still appears, contact your dealer.

MESSAGES DURING SCANNING AND COPYING

LCD MESSAGE	ACTION
Copy function disables.	Download printer profile.
Check printer cable or status.	Check if the printer cable has been correctly connected. Check if the printer is turned on. Restart the machine. If the message still appears, contact your nearest dealer.

INFORMATION CODES DURING NETWORKING

CODE	MEANING	ACTION
20512	The connection has failed.	Ping the IP address of the MFP from another PC in DOS prompt. For example, type "Ping 10.1.20.144" in DOS prompt. If the MFP does not respond, then perform the following steps. Check that the RJ-45 connector is firmly plugged-in. Check the Ethernet cable. Check the MFP IP address. Check the destination IP address. Check Subnet Mask. Check Gateway IP.
20519	The destination address is invalid.	
20530	The Network is down.	
20531	Network is unreachable.	
20533	Connection aborted by the server	
20534	Connection reset by the server.	
20540	Connection timed out.	
20541	The attempt to connect failed.	
20545	Unable to reach the destination host.	
29999	Failed to connect email host.	Check Network environment

INFORMATION CODES DURING E-MAILING

CODE	MEANING	ACTION
30001	Device internal failure.	Reboot the machine, and try again. If the error is still there, contact your nearest dealer.
30002	Fail to connect Mail server.	Contact your network administrator for further help.
30009 31019 31029 31049 32009 33009 33019	Fail to get Mail server response.	Turn on Log File option in [ADMIN / MANAGEMENT/ Service mode] to record and observe network actions and contact your network administrator or nearest dealer for further help.
31000 31020 31030 32000 33000 33010	Unpredicted error.	
31001 31021 31031 32001	SMTP [421] Service not available, closing transmission channel. The Server is going to shut down.	Contact your network administrator for further help.
31010	Mail server doesn't support SMTP service extension.	
31011	Mail server doesn't support SMTP LOGIN authentication.	Contact your Mail server administrator to turn on SMTP LOGIN option.
31012	SMTP login user name error.	Check your login user name.
31032	SMTP [450]Requested mail action not taken: mailbox unavailable.	Check "To" address.
31022 31033 32002 33001	SMTP [451]Requested action aborted: local error in processing.	Contact your network administrator for further help.

CODE	MEANING	ACTION
31023 31034 33002	SMTP[452]Requested action not taken: insufficient system storage.	Contact your network administrator for further help.
31013	SMTP [454]Temporary authentication failure: The authentication failed due to a temporary server failure.	Contact your network administrator for further help on mail server's authentication mechanism. Choose SMTP authentication for Email security or turn off the mail server's authentication and try again.
31002 31024 31035 32003 33011	SMTP [500]Syntax error, command unrecognized.	Reboot the machine, and try again. If the error is still there, contact your nearest dealer.
31003 31025 31036 32004	SMTP [501]Syntax error in parameters or arguments.	Check if the Device Name is valid. The Device Name can be found in Menu/ General. Check "From" address. Check "To" address. Contact your network administrator for further help.
31037 32005	SMTP [503]Bad sequence of commands.	Reboot the machine, and try later. If the error is still there, contact your nearest dealer.
31004	SMTP[504]Command parameters not implemented.	Check if the Device Name is valid. The Device Name can be found in Menu/ General.
31027	SMTP [530] Authentication required. Mail server requires authentication in order to perform the requested action.	Contact your network administrator for further help on mail server's authentication mechanism. Choose SMTP authentication for Email security or turn off the mail server's authentication and try again.
31038	SMTP [550] Requested action not taken: mailbox unavailable [E.g., mailbox not found, no access]	Check "To" address.

CODE	MEANING	ACTION
31039	SMTP [551] User not local: please try again.	Check "To" address.
31026 31040 33003	SMTP[552]Requested mail action aborted: exceeded storage allocation.	Check "To" address. Check mailbox storage allocation. Contact your network administrator for further help.
31041	SMTP[553]Requested action not taken: mailbox name not allowed.	Check "To" address.
32006 33004	SMTP [554]Transaction failed.	Contact your network administrator for further help.
32999	Connection broken during data transmission.	Check network environment. Check if email attachment size is larger than the mailbox quota.

INFORMATION CODES DURING FILING

CODE	MEANING	ACTION
40001 40002 40003 40004 40005 40006 41001 41002 41003	Device internal failure.	Reboot the machine, and try later. If the error is still there, contact your nearest dealer.
41004	Fail to connect FTP server.	Make sure the FTP server is not shut down and port number is correct. If the error is still there, contact your FTP server administrator.
42001	FTP login name error.	Check your login name and try again
42002	FTP password incorrect.	Check your password and try again
43001	FTP can't enter this directory.	Make sure you have the privilege to enter this directory.

CODE	MEANING	ACTION
43003	FTP can't check file existed or not.	Make sure you have the privilege to browse this directory.
44001	FTP can't change data transfer type.	Contact your server administrator for further help.
44002	FTP store file error.	Make sure you have the privilege to store files in this position (server/ directory)
44003	Insufficient storage space in system.	Check FTP server free storage space and contact your server administrator.
44004	File name not allowed.	Change file name to meet naming convention of FTP server's OS.
50001	CIFS Network share name incorrect.	Check directory in profile and make sure it follows UNC, such as \\Computer\Share\directory.
51001	CIFS fail to connect.	Check that server supports CIFS(SMB) connection.
51002	CIFS Computer name error.	Make sure computer name in directory is correct.
51003	CIFS dialect negotiation fail.	This CIFS may not support PC NETWORK PROGRAM 1.0 dialect.
52001	CIFS (User level) login fail.	Check login name and password you typed and try again.
53001	CIFS (User level) can not make subdirectory.	This account has not right to create new subdirectory.
54001	CIFS fail to create file.	Make sure you have full control privilege on this network share.
54002	CIFS send data error	
61001 63001 63002 64000	HTTP fail to connect	Check Server IP and HTTP port. Make sure they are correct. Or, check whether that server supports HTTP connection.
62001 64001	HTTP [401] Unauthorized.	This HTTP server needs authorization. Make sure your account has correct authorization.
62002 64002	HTTP [403] Forbidden.	This action is forbidden in this server. This is not unauthorized but forbidden.

CODE	MEANING	ACTION
62009 64009	Unpredicted error.	Turn on Log File option in [ADMIN / MANAGEMENT/ log action] to log and observe device actions and contact your server administrator or nearest dealer for further help.
63003	HTTP [405] MKCOL method not allowed.	Contact server administrator to change permission on this privilege.
63004	HTTP [501] MKCOL method not implemented.	HTTP server does not support MKCOL to create directory. Give up creating new directory or create directory at server in advance.
64003	HTTP [405] PUT method not allowed.	Contact server administrator to change permission on this privilege.
64004	HTTP [500] internal server error.	Contact your server administrator for further help.
64005	HTTP [501] PUT method not implemented.	That server does not implement HTTP PUT method. C5510MFP/C5540MFP can't store file on this server, contact your system administrator for help
64006	HTTP [503] service unavailable.	Contact your server administrator for help.
64007	HTTP [505] server does not support HTTP version 1.1.	That server does not support HTTP version 1.1 (C5510MFP/C5540MFP uses), contact your server administrator for help.
64021 65001	HTTP [404] Resource not found.	That server can't save the files, contact your server administrator for help.

CLEARING PAPER JAMS

Provided that you follow the recommendations in this guide on use of print media, and you keep the media in good condition prior to use, your MFP should give years of reliable service. However, paper jams occasionally do occur, and this section explains how to clear them quickly and simply.

Jams can occur due to paper misfeeding from a paper tray or at any point on the paper path through the MFP. When a jam occurs, the printer immediately stops, and the Alert LED on the Status Panel informs you of the event. If printing multiple pages (or copies), do not assume that, having cleared an obvious sheet, others will not also be stopped somewhere along the path. These must also be removed in order to clear the jam fully and restore normal operation.

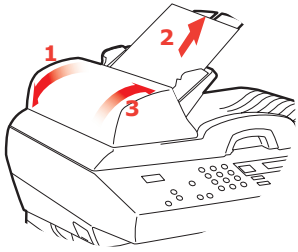
IN THE ADF.....

In the event of a paper jam, follow the procedures below to remove the paper:

1. Gently open the ADF front cover to the left.

2. Carefully pull the paper out of the ADF unit.

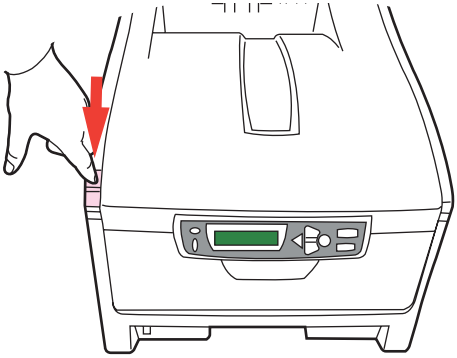
3. Close the ADF front cover.



IN THE PRINTER.....

1. If a sheet is well advanced out of the top of the printer, simply grip it and pull gently to draw it fully out. If it does not remove easily, do not use excessive force. It can be removed from the rear later.

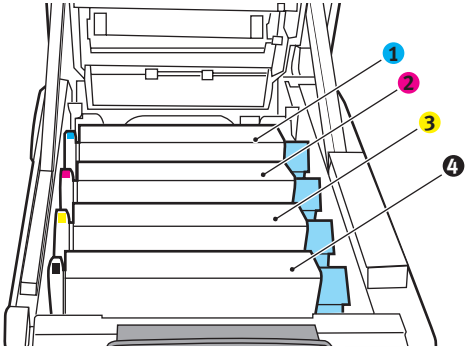
2. Press the cover release and open the printer's top cover fully.



WARNING!

If the printer has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

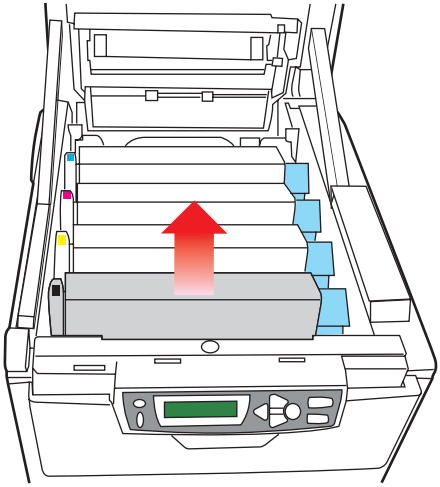
3. Note the positions of the four cartridges.



1. Cyan cartridge
2. Magenta cartridge
3. Yellow cartridge
4. Black cartridge

It will be necessary to remove the four image drums to gain access to the paper path.

4. Holding it by its top centre, lift the cyan image drum, complete with its toner cartridge, up and out of the printer.



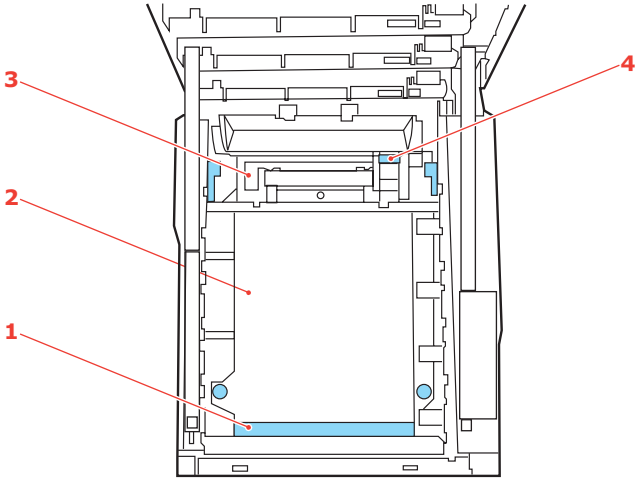
5. Put the cartridge down gently onto a piece of paper to prevent toner from marking your furniture and to avoid damaging the green drum surface.

CAUTION!

The green image drum surface at the base of the cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes.

6. Repeat this removal procedure for each of the remaining image drum units.

7. Look into the printer to check whether any sheets of paper are visible on any part of the belt unit.

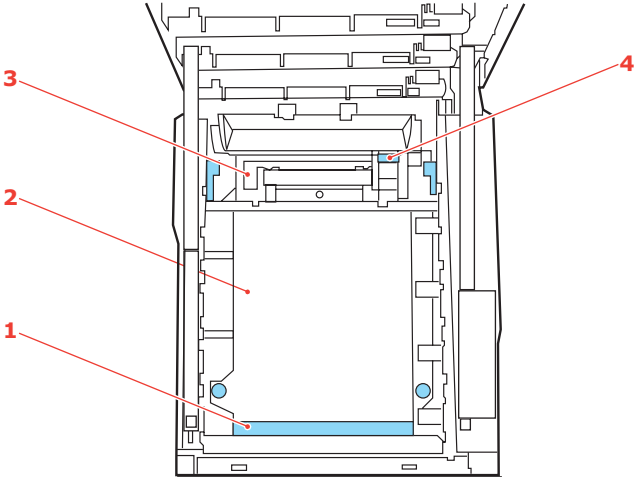


(a) To remove a sheet with its leading edge at the front of the belt (1), carefully lift the sheet from the belt and pull it forwards into the internal drum cavity and withdraw the sheet.

CAUTION!

Do not use any sharp or abrasive objects to separate sheets from the belt. This may damage the belt surface.

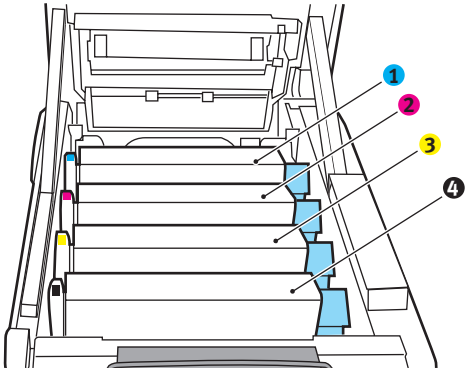
(b) To remove a sheet from the central area of the belt (2), carefully separate the sheet from the belt surface and withdraw the sheet.



(c) To remove a sheet just entering the fuser (3), separate the trailing edge of the sheet from the belt, push the fuser pressure release lever (4) towards the front and down to release the fuser's grip on the sheet, and withdraw the sheet through the drum cavity area. Then allow the pressure release lever to rise again.

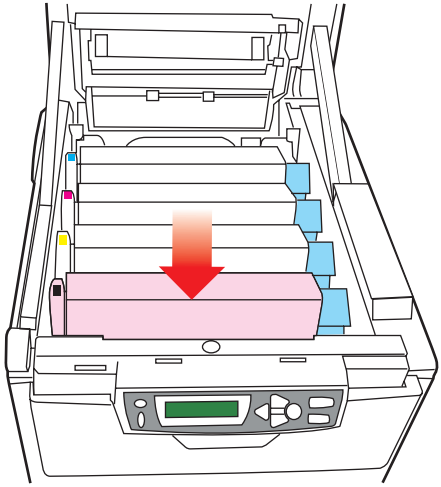
NOTE
If the sheet is well advanced into the fuser (only a short length is still visible), do not attempt to pull it back. Follow the next step to remove it from the rear of the printer.

8. Starting with the cyan image drum unit nearest the fuser, replace the four image drums into the drum cavity, making sure to locate them in the correct order.



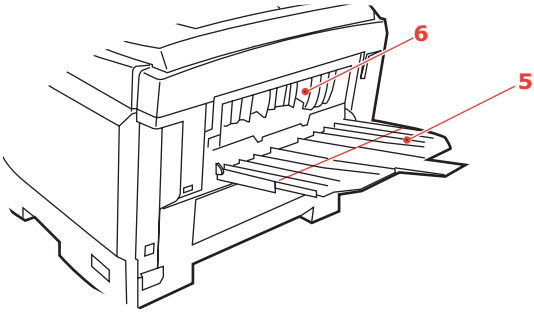
1. Cyan cartridge
2. Magenta cartridge
3. Yellow cartridge
4. Black cartridge

Holding the complete assembly by its top centre, lower it into place in the printer, locating the pegs at each end into their slots in the sides of the printer cavity.



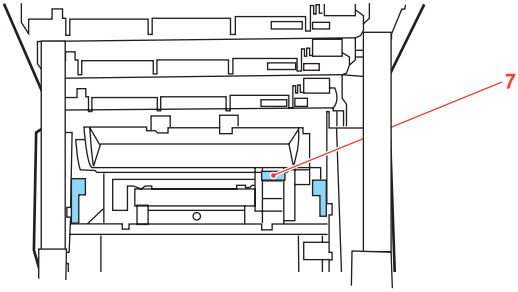
9. Lower the top cover but do not press down to latch it closed yet. This will protect the drums from excessive exposure to room lighting while you check the remaining areas for jammed sheets.

10. Open the rear exit tray (5) and check for a sheet of paper in the rear path area (6).



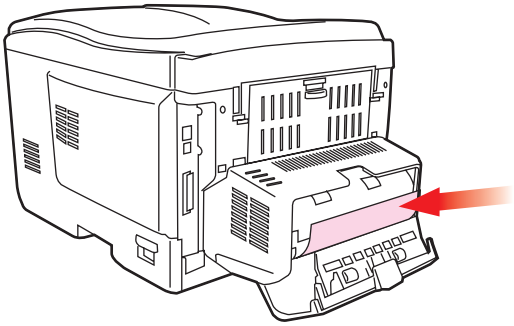
Pull out any sheets found in this area.

If the sheet is low down in this area and difficult to remove, it is probably still gripped by the fuser. In this case raise the top cover, reach around and press down on the fuser pressure release lever (7).

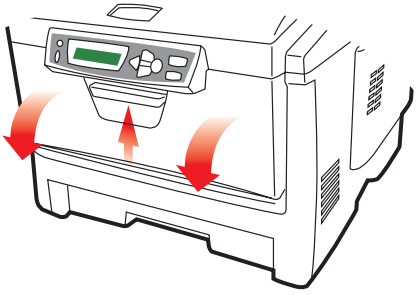


11. If you are not using the rear exit tray, close it once paper has been removed from this area.

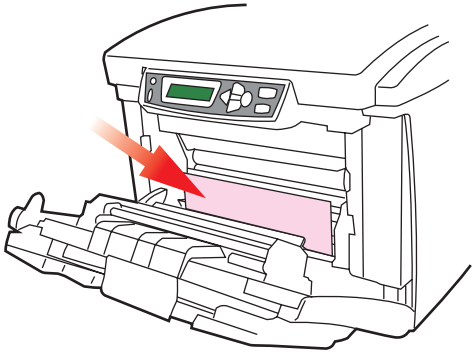
12. If your printer has a duplex unit installed, press the cover release at the centre of the unit, open the cover and remove any sheets in this area, then close the cover.



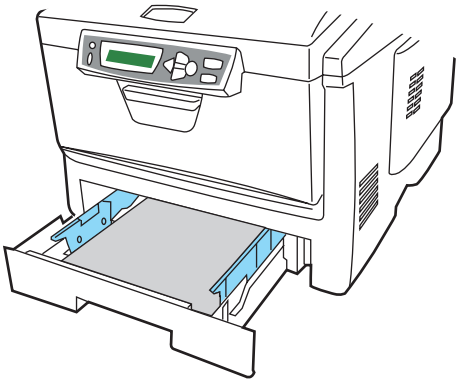
13. Lift the front cover release and pull open the front cover.



14. Check inside the cover for sheets in this area and remove any that you find, then close the cover.



15. Pull out the paper tray and ensure that all paper is stacked properly, is undamaged, and that the paper guides are properly positioned against the edges of the paper stack. When satisfied, replace the tray.



16. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

When the jam has been cleared, if Jam Recovery is set to ON in the System Configuration Menu, the MFP will attempt to reprint any pages lost due to paper jams.

COLOUR PRINTING

NOTE:
Before sending a job to print, ensure that the MFP is in SCAN TO MODE. In COPY MODE the printer will not accept a print job.

The printer drivers supplied with your MFP provide several controls for changing the colour output. For general use the automatic settings will suffice, providing reasonable default settings that will produce good results for most documents.

Many applications have their own colour settings, and these may override the settings in the printer driver. Please refer to the documentation for your software application for details on how that particular program's colour management functions.

FACTORS THAT AFFECT THE APPEARANCE OF PRINTS

If you wish to manually adjust the colour settings in your printer driver, please be aware that colour reproduction is a complex topic, and there are many factors to take into consideration. Some of the most important factors are listed below.

Differences between the range of colours a monitor or printer can reproduce

- Neither a printer nor a monitor is capable of reproducing the full range of colours visible to the human eye. Each device is restricted to a certain range of colours. In addition to this, a printer cannot reproduce all of the colours displayed on a monitor, and vice versa.
- Both devices use very different technologies to represent colour. A monitor uses Red, Green and Blue (RGB) phosphors (or LCDs), a printer uses Cyan, Magenta, Yellow and Black (CMYK) toner or ink.
- A monitor can display very vivid colours such as intense reds and blues and these cannot be easily produced on any printer using toner or ink. Similarly, there are certain colours, (some yellows for example), that can be printed, but cannot be displayed accurately on a monitor. This disparity between monitors and printers is often the main reason that printed colours do not match the colours displayed on screen.

Viewing conditions

A print can look very different under different lighting conditions. For example, the colours in a print may look different when viewed standing next to a sunlit window, compared to how they look under standard office fluorescent lighting.

Printer driver colour settings

The driver settings for Manual colour can change the appearance of a print. There are several options available to help match the printed colours with those displayed on screen.

Monitor settings

The brightness and contrast controls on your monitor can change how your document looks on-screen. Additionally, your monitor's colour temperature influences how "warm" or "cool" the colours look.

There are several settings found on a typical monitor:

- 5000kWarmest; yellowish lighting, typically used in graphic art environments.
- 6500kCooler; approximates daylight conditions.
- 9300kCool; the default setting for many monitors and television sets.

(k = degrees Kelvin, a measurement of temperature.)

How your software application displays colour

Some graphics applications such as Corel Draw or Adobe Photoshop may display colour differently from "Office" applications such as Microsoft Word. Please see your application's on-line help or user manual for more information.

Paper type

The type of paper used can also significantly affect the printed colour. For example, a printout on recycled paper can look duller than one on specially formulated glossy paper.

TIPS FOR PRINTING IN COLOUR

The following guidelines may help you to achieve good colour output from your printer.

PRINTING PHOTOGRAPHIC IMAGES

Select "Photo Enhance" option when printing photographic images.

Use the Monitor (6500k) Perceptual setting.

If the colours look too dull, try the Monitor (6500k) Vivid or Digital Camera settings.

PRINTING FROM MICROSOFT OFFICE APPLICATIONS

Use the Monitor (9300k) setting. This may help if you are having problems with specific colours from applications such as Microsoft Excel or Microsoft Powerpoint.

PRINTING SPECIFIC COLOURS (E.G. A COMPANY LOGO)

There are 2 utilities on your printer driver CD-ROM that can help match specific colours:

Colour Correct Utility

Colour Swatch Utility

ADJUSTING THE BRIGHTNESS OR INTENSITY OF A PRINT

If the print is too light/dark, you can use the Brightness control to adjust it.

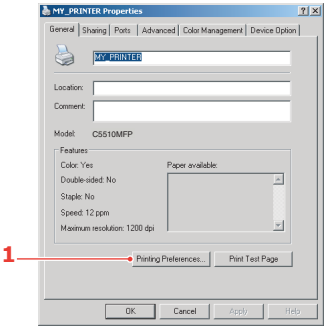
If the colours are too intense/not intense enough, use the Saturation control.

ACCESSING THE COLOUR MATCHING OPTIONS

The Colour Matching options in the printer driver can be used to help match your printed colours to the ones displayed on your monitor or from some other source, such as a digital camera.

To open colour matching options from the Windows Control Panel:

1. Open the **Printers** window (called "Printers and Faxes" in Windows XP).
2. Right-click the printer name and choose **Properties**.
3. Click the **Printing Preferences** button (1).

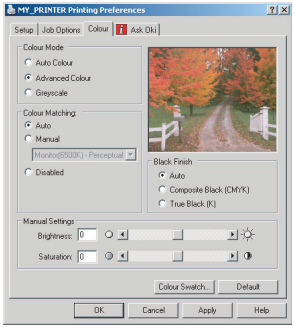


To open colour matching options from within a Windows application:

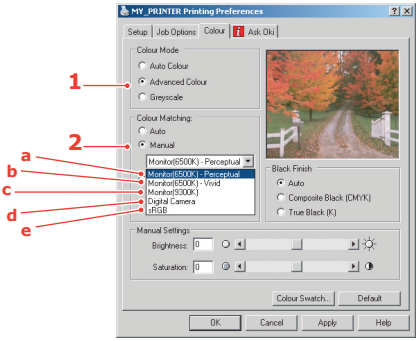
1. Choose **File—Print...** from the application's menu bar.
2. Click the **Properties** button next to the printer name.

SETTING THE COLOUR MATCHING OPTIONS

1. On the **Colour** tab select **Advanced Colour** ((1) below) for Colour Matching.



2. Choose the **Manual** colour setting (2) and select from the following options:



(a) Monitor (6500k) Perceptual
Optimised for printing photographs. Colours are printed with emphasis on saturation.

(b) Monitor (6500k) Vivid
Optimised for printing photographs, but with even more saturated colours than the Monitor (6500k) Perceptual setting.

(c) Monitor (9300k)
Optimised for printing graphics from applications such as Microsoft Office. Colours are printed with emphasis on Lightness.

(d) Digital Camera
Optimised for printing photographs taken with a digital camera.

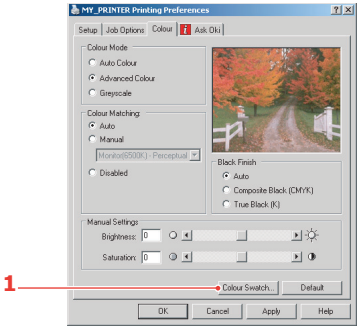
Your results will vary depending on the subject and the conditions under which the photograph was taken.

(e) sRGB
The printer will try to reproduce the sRGB colour space. This may be useful if colour matching from an sRGB input device such as a scanner or digital camera.

USING THE COLOUR SWATCH FEATURE

To use the Colour Swatch feature, you must install the Colour Swatch Utility. This is supplied on the CD-ROM that was supplied with your printer.

The Colour Swatch function prints charts which contain a range of sample colours. Note that this is not the full range of colours that the printer can produce. Listed on each sample colour are the corresponding RGB (Red, Green, Blue) values. This can be used to pick specific colours in applications that allow you to choose your own RGB values. Simply click the Colour Swatch button (1) and choose from the options available.



An example of using the Colour Swatch function:

You wish to print a logo in a particular shade of red. The steps you would follow are:

1. Print a colour swatch, then select the shade of red that best suits your needs.
2. Take a note of the RGB value for the particular shade that you liked.
3. Using your program's colour picker, enter these same RGB values, and change the logo to that colour.

The RGB colour displayed on your monitor may not necessarily match what was printed on the colour swatch. If this is the case, it is probably due to the difference between how your monitor and printer reproduce colour. Here, it is unimportant since your primary objective is to print the required colour.

USING THE COLOUR CORRECT UTILITY

The Oki Colour Correct Utility is provided on your printer driver CD-ROM. You must install it separately since it is not installed along with the printer driver.

The Colour Correct utility has the following features:

- Microsoft Office palette colours can be individually adjusted. This is useful if you want to change how a specific colour is printed.
- Colours can be adjusted by changing Hue, Saturation and Gamma. This is useful if you wish to change the overall colour output.

Once these colour adjustments have been made, the new settings can be selected from the printer driver Colour tab.

To select adjustments made with the Colour Correct Utility:

1. From your application program, click **File** and point to **Print**.
2. Click **Properties**. This displays the printer driver options.
3. Click the **Colour** tab.
4. Click **Advanced Colour**.
5. Click **User Defined**.

Select the colour adjustment you made with the Colour Correct Utility.

SPECIFICATIONS

	ITEM	SPECIFICATION
General		
	Dimensions	444 x 561 x 667mm (W x D x H)
	Weight	32Kg approximately
	Power Source	Input: 220 to 240VAC, 50 to 60Hz
	Power consumption	Typical operating <400W
		Idle <125W
		Power save mode<32W
	Environmental	
	Noise	56dBA (operating)
	Temperature	10°C to 32°C
	Humidity	20% to 80% RH
Scanning		
	Image Sensor	Colour CCD
	Light source	Cold Cathode Fluorescent Lamp
	Optical resolution	600 x 600 dpi
	Output Quality	Input: 48 bit colour
		Output: 24 bit colour
		8 bit Greyscale
		4 bit CMYK
		1 bit Monochrome
	Memory	2.5 Mbytes
	LCD size	Text, 24 x 2, mono
	LED Indications	Power saving
		Warning
		Power
	External Connections	RJ45 (Network)
		USB (Computer)
	Network	10/100 Mbit auto-negotiation
	Network Workgroup solution for:	Stand-alone copy
		Email (via Internet/Intranet)
		Filing
	Output format	PDF, JPEG, TIFF

	ITEM	SPECIFICATION
	Interface	
	USB 2.0 Host	Copy
	USB 2.0 Device	Scan (length of USB cable not to exceed 2m.)
	Ethernet 10/100 Mb	Email, Scan to file, Print
ADF		
	Document size	114 x 140 to 216 x 355mm
	Document weight/ Thickness	72.6 to 127 g/m²
	Paper Feed	Face up
	Capacity	50 sheets of Xerox4024 DP 9.07Kg paper
Copy Specification		
	Emulation	PostScript 3 PCL 5c, HP-GL, PCL XL Epson FX IBM Pro Printer III XL-
	Interface	USB 2.0
	Number of copies	Up to 99
	Resolution	600 x 600dpi
	Media type	Plain paper, Ultra Heavy, Transparency
	Quality	Speed, Fine
	Density Control	5 levels
	Enlarge/reduce	Whole page (98%) 25% to 400% in 1% increments Preset Scaling
	Input tray	Auto/Tray 1/Tray 2/MP Tray
	Paper Supply	Letter SEF (Short Edge Feeding) Legal SEF A4 SEF B5 SEF A5 SEF
	Edge erase	0 to 25mm
	Margin shift	0 to 25mm
	Paper saving	1/4/ in 1 page
	(N-up)	1 in 1/4 in 1 (Horizontal/Vertical)
	Collate	On/OFF

	ITEM	SPECIFICATION
	Job counting	Copy, Scan, Print
		Enable/Disable
Network Specification		
	Connectivity	Ethernet 10BaseT/100BaseTX auto-negotiation with RJ-45 connector
	Communications Protocol	TCP/IP, SMTP, HTTP, MIME, FTP, CIFS, DHCP, DNS, LDAP
	Supported Browsers	Microsoft IE 4.1 or higher
		Netscape Navigator 4.0 to 4.78
	Configuration Requirement	IP address
		Subnet mask
		Gateway
		SMTP server/POP3 server
		FTP server
		Web server
E-mail Specification		
	Communication Protocol	SMTP, MIME, POP3
	File Formats	
	B&W	PDF, TIFF, MTIFF
	Grey/Colour	PDF, TIFF, MTIFF, JPEG
	Default File Format	PDF
	Separation Limit	1MB, 3 MB, 5MB, 10 MB, 30MB, No limit
	Resolution	75, 100, 150, 200, 300, 400, 600 dpi
	Default Resolution	200 dpi
	Address Book Volume	
	Max. Addresses	300
	Group	20
	No. of Addresses in Each Group	50
	Multiple Recipients Allow	Yes
	Security Check	Yes
	Mail Server Authentication	SMTP, POP3

	ITEM	SPECIFICATION
	Supported Mail Server Application	Lotus Mail Server 5.0 MS Exchange Server 2000 RedHat 7.0 SendMail MAC Mail Server in OS 9.04
	Supported LDAP Server	Windows 2000 Active Directory Windows NT 4.0 + MS Exchange 5.5 Lotus Notes R5
	Supported Mail Application	Microsoft Outlook 2000 Microsoft Outlook Express 5.0 Microsoft Outlook Express 6 Netscape Messenger 4.7 Netscape Messenger 4.73 MAC built-in MAIL application Eudora 4.3.2J Lotus Notes R5
Filing Specification		
	Communication Protocol	FTP, HTTP, CIFS
	File Formats	
	B&W	PDF, TIFF, MTIFF
	Grey/Colour	PDF, TIFF, MTIFF, JPEG
	Default File format	PDF
	Resolution	75, 100, 150, 200, 300, 400, 600 dpi
	Default Resolution	200 dpi
	Max. Number of Profiles	40
Printing		
	Speed	16 pages per minute colour/24 pages per minute monochrome
	Resolution	600 x 600dpi 600 x 1200dpi
	Auto Features	Auto registration Auto density adjustment Auto consumable counter reset
	Memory	128MB standard, upgradable to 320MB
	Paper capacity at 80g/m²	300 sheets in main tray 100 sheets in multi purpose tray

ITEM	SPECIFICATION
Paper weight	64 ~ 120g/m² in main tray 75 ~ 203g/m² in multi purpose tray
Paper output	250 sheets in face down (top) stacker @ 80g/m² 100 sheets in face up (rear) stacker @ 80g/m²
Printer life	420,000 pages or 5 years
Duty cycle	20,000 pages per month max., 4,000 pages per month average
Toner life	3,000 pages at 5% coverage
Image drum life	14,000 pages (typical office usage)
Belt life	50,000 A4 pages at 3 pages per job
Fuser life	45,000 A4 pages

ERROR CODES

NOTES:

1. **mmm** = *the setup of "Paper Supply"*
2. **ppp** = *the setup of "Media Type*
3. *"yy" in code denotes paper size. Paper size codes are shown in the list after the table.*

CODE	LCD MESSAGE	DETAILS
10007	Check The Printer	Indicates that job cancellation has been initiated and data is being ignored until job is complete.
10053, 10976, 10975, 10050, 10054, 10051, 10052	Printer Error	These are not a user-level errors. Please call service
40994	Check The Printer	Memory limitation. This error code appears if memory full occurs during multiple copy.
10982	Check The Printer	Job cancelled because there is no permission for printing (Related to JobAccount). Cleared by pressing the ON-LINE switch.
30114	Check The Printer	Invalid data was received. Press the On-line switch to cancel. Displayed when an unsupported PDL command is received or a spool command is received without a HDD.
411yy	Check The Printer	Manual paper feed is required. Manually insert the paper shown by **mmm**.
480yy,482yy,483yy	Media Mismatch Check The Printer	The media type in the tray does not match the print data. Load **mmm/ppp** paper in MP Tray orTray1.
480yy,482yy,483yy	Media Mismatch Check The Printer	The media size or both media size and media type in the tray does not match the print data.
30993	Check The Printer	Network initializing.
472yy	Tray1 Empty Load **mmm** in Tray1	Printing request has been issued to an empty tray1.

CODE	LCD MESSAGE	DETAILS
470yy	MP Empty Load **mmm** in MP Tray	Paper feed from MPTRAY has been attempted, but the tray is empty. Loading **mmm** paper and pressing the On-line switch will start printing.
30097	Printer Error Check The Printer	Memory capacity overflow. Press the ON-LINE switch to continue printing. Install expansion RAM or decrease data size.
40956	Y Waste Toner Full Replace Y Toner	Waste toner will fill up the box. Toner replacement is necessary (Y, M or C).
40957	M Waste Toner Full Replace Y Toner	
40958	C Waste Toner Full Replace Y Toner	
40028	K Toner Empty Replace K Toner	Toner empty (K, Y, M or C). Warning status takes effect at Cover Open/Close. Allows printing approx 50 pages (A4 5% duty, density 5%).
40029	Y Toner Empty Replace Y Toner	
40030	M Toner Empty Replace M Toner	
40031	C Toner Empty Replace C Toner	
400952	Have you replaced Y Toner? Yes/No	Displayed to confirm whether the user has replaced the toner after Cover Open/Close (after Waste Toner Full error).
40953	Have you replaced M Toner? Yes/No	Selection of "Yes" will reset the toner counter while clearing the Waste Toner Full error. The selection of "No" will bring the printer to waste toner full warning status.
40954	Have you replaced C Toner? Yes/No	
40959, 40960, 40961, 40962	Printer Error Check The Printer	Something is wrong with the Toner Sensor.

CODE	LCD MESSAGE	DETAILS
30034	Paper Size error Check The Printer	Inappropriate size paper was fed from a tray. Usually paper is automatically ejected, and error message is displayed. After the cover is opened and closed, error is cancelled. If paper remains in the printer, remove it and close the cover. Open and close the cover to perform recovery printing, and continue.
40980	Printer Error Check The Printer	Displayed if paper jam has occurred in the Duplex Unit and the Duplex unit is removed. If a user removes the Duplex Unit when jam has not occurred, Service Call Error 181 appears.
40964	Waste Toner Full Replace Belt	Water toner full. Warning status takes effect at cover open/close. Replace the transfer belt. If you do not, when the printer has printed 500 pages, the error will occur again.
40034, 40035, 40036	Printer Error Check The Printer	Drum is not correctly installed.
40033	Printer Error Check The Printer	Belt is unlocked or black drum is not correctly installed.
40037	Printer Error Check The Printer	Belt unit is not correctly installed.
40992	Printer Error Check The Printer	Fuser unit is not correctly installed.

CODE	LCD MESSAGE	DETAILS
40967	Printer Error Check The Printer	Download mode when download data is received in normal operation. Show download data is being received. Receiving of download data has finished. An error occurs when received download data has: 1 : Size error 2 : Checksum error 3 : Print Model N0. error 4 :Module I/F version error 5 : FAT version error Download data is writing. Writing download data has finished. An error occurs when writing download data has: 1 : Memory allocation error 2 : Download File error 3 : Device free space reserving error 4 : Device free space insufficient error 5 : File Write error 6 : CU-F/W mismatch error
40057	Printer Error Check The Printer	Service Calls

Paper sizes

PAPER SIZE	PJL CODE (DECIMAL)
LETTER	02
EXECUTIVE	05
LEGAL14	03
LEGAL13.5	85
LEGAL13	96
A4	04
A5	97
A6	98
B5	13
CUSTOM	15
COM-9 ENVELOPE	95
COM-10 ENVELOPE	08
MONARCH ENVELOPE	09
DL ENVELOPE	11
C5 ENVELOPE	10
POSTCARD	16
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